Anlage: Meßergebnisse des Versuchskörpers SETMQ 1

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A Belastungsprotokoll

VERSUCHSBALKEN SETM01 GEPRUEFT AM 19. 5. 1978

SCHNITTGROESSEN

BEANSPRUCHUNG INFOLGE P (1. ZEILE) UND P+G (2. ZEILE) BLATT 1

M/MU	T	SCHNITT NR. I		III		V			VII	
	KN*M	M KN*M	Q KN	M KN*M	Q KN	M KN*M	QL KN	QR KN	M KN*M	Q KN
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		7.920	14.400	17.100	10.080	23.040	5.760	5.760	25.920	0.000
0.114	0.000	20.000	40.000	50.000	40.000	80.000	40.000	0.000	80.000	0.000
		27.920	54.400	67.100	50.080	103.040	45.760	5.760	105.920	0.000
0.229	0.000	40.000	80.000	100.000	80.000	160.000	80.000	0.000	160.000	0.000
		47.920	94.400	117.100	90.080	183.040	85.760	5.760	185.920	0.000
0.229/ 1	0.000	40.000	80.000	100.000	80.000	160.000	80.000	0.000	160.000	0.000
		47.920	94.400	117.100	90.080	183.040	85.760	5.760	185.920	0.000
0.343	0.000	60.000	120.000	150.000	120.000	240.000	120.000	0.000	240.000	0.000
		67.920	134.400	167.100	130.080	263.040	125.760	5.760	265.920	0.000
0.400	0.000	70.000	140.000	175.000	140.000	280.000	140.000	0.000	280.000	0.000
		77.920	154.400	192.100	150.080	303.040	145.760	5.760	305.920	0.000
0.457	0.000	80.000	160.000	200.000	160.000	320.000	160.000	0.000	320.000	0.000
		87.920	174.400	217.100	170.080	343.040	165.760	5.760	345.920	0.000
0.514	0.000	90.000	180.000	225.000	180.000	360.000	180.000	0.000	360.000	0.000
		97.920	194.400	242.100	190.080	383.040	185.760	5.760	385.920	0.000
0.571	0.000	100.000	200.000	250.000	200.000	400.000	200.000	0.000	400.000	0.000
		107.920	214.400	267.100	210.080	423.040	205.760	5.760	425.920	0.000
0.629	0.000	110.000	220.000	275.000	220.000	440.000	220.000	0.000	440.000	0.000
		117.920	234.400	292.100	230.080	463.040	225.760	5.760	465.920	0.000
0.686	0.000	120.000	240.000	300.000	240.000	480.000	240.000	0.000	480.000	0.000
		127.920	254.400	317.100	250.080	503.040	245.760	5.760	505.920	0.000
0.743	0.000	130.000	260.000	325.000	260.000	520.000	260.000	0.000	520.000	0.000
		137.920	274.400	342.100	270.080	543.040	265.760	5.760	545.920	0.000
0.800	0.000	140.000	280.000	350.000	280.000	560.000	280.000	0.000	560.000	0.000
		147.920	294.400	367.100	290.080	583.040	285.760	5.760	585.920	0.000
0.857	0.000	150.000	300.000	375.000	300.000	600.000	300.000	0.000	600.000	0.000
		157.920	314.400	392.100	310.080	623.040	305.760	5.760	625.920	0.000
0.000/ 1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		7.920	14.400	17.100	10.080	23.040	5.760	5.760	25.920	0.000

M/MU	T KN*M	SCHNITT NR. I M KN*M	I Q KN	III M KN*M	III Q KN	V M KN*M	V QL KN	V QR KN	VII M KN*M	VII Q KN
0.000/ 2	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		7.920	14.400	17.100	10.080	23.040	5.760	5.760	25.920	0.000
0.857/ 1	0.000	150.000	300.000	375.000	300.000	600.000	300.000	0.000	600.000	0.000
		157.920	314.400	392.100	310.080	623.040	305.760	5.760	625.920	0.000
0.857/ 2	16.000	150.000	300.000	375.000	300.000	600.000	300.000	0.000	600.000	0.000
		157.920	314.400	392.100	310.080	623.040	305.760	5.760	625.920	0.000
0.857/ 3	32.000	150.000	300.000	375.000	300.000	600.000	300.000	0.000	600.000	0.000
		157.920	314.400	392.100	310.080	623.040	305.760	5.760	625.920	0.000
0.857/ 4	48.000	150.000	300.000	375.000	300.000	600.000	300.000	0.000	600.000	0.000
		157.920	314.400	392.100	310.080	623.040	305.760	5.760	625.920	0.000
0.857/ 5	64.000	150.000	300.000	375.000	300.000	600.000	300.000	0.000	600.000	0.000
		157.920	314.400	392.100	310.080	623.040	305.760	5.760	625.920	0.000
0.857/ 6	80.000	150.000	300.000	375.000	300.000	600.000	300.000	0.000	600.000	0.000
		157.920	314.400	392.100	310.080	623.040	305.760	5.760	625.920	0.000
0.686/ 1	80.000	120.000	240.000	300.000	240.000	480.000	240.000	0.000	480.000	0.000
		127.920	254.400	317.100	250.080	503.040	245.760	5.760	505.920	0.000
0.571/ 1	80.000	100.000	200.000	250.000	200.000	400.000	200.000	0.000	400.000	0.000
		107.920	214.400	267.100	210.080	423.040	205.760	5.760	425.920	0.000
0.400/ 1	80.000	70.000	140.000	175.000	140.000	280.000	140.000	0.000	280.000	0.000
		77.920	154.400	192.100	150.080	303.040	145.760	5.760	305.920	0.000
0.400/ 2	96.000	70.000	140.000	175.000	140.000	280.000	140.000	0.000	280.000	0.000
		77.920	154.400	192.100	150.080	303.040	145.760	5.760	305.920	0.000
**0.400/ 3	112.000	70.000	140.000	175.000	140.000	280.000	140.000	0.000	280.000	0.000
		77.920	154.400	192.100	150.080	303.040	145.760	5.760	305.920	0.000
* 0.100	112.000	17.500	35.000	43.750	35.000	70.000	35.000	0.000	70.000	0.000
		25.420	49.400	60.850	45.080	93.040	40.760	5.760	95.920	0.000
0.000/ 3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		7.920	14.400	17.100	10.080	23.040	5.760	5.760	25.920	0.000
0.000/ 4	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		7.920	14.400	17.100	10.080	23.040	5.760	5.760	25.920	0.000
0.000/ 5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		7.920	14.400	17.100	10.080	23.040	5.760	5.760	25.920	0.000
0.429	0.000	75.000	150.000	187.500	150.000	300.000	150.000	0.000	300.000	0.000
		82.920	164.400	204.600	160.080	323.040	155.760	5.760	325.920	0.000

			SCHNITT NR. I		III		V			VII	
	M/MU	T KN*M	M KN*M	Q KN	M KN*M	Q KN	M KN*M	QL KN	QR KN.	M KN*M	Q KN
	0.857/ 7	0.000	150.000	300.000	375.000	300.000	600.000	300.000	0.000	600.000	0.000
			157.920	314.400	392.100	310.080	623.040	305.760	5.760	625.920	0.000
	0.857/ 8	32.000	150.000	300.000	375.000	300.000	600.000	300.000	0.000	600.000	0.000
			157.920	314.400	392.100	310.080	623.040	305.760	5.760	625.920	0.000
	0.857/ 9	64.000	150.000	300.000	375.000	300.000	600.000	300.000	0.000	600.000	0.000
			157.920	314.400	392.100	310.080	623.040	305.760	5.760	625.920	0.000
	0.857/10	96.000	150.000	300.000	375.000	300.000	600.000	300.000	0.000	600.000	0.000
			157.920	314.400	392.100	310.080	623.040	305.760	5.760	625.920	0.000
	0.857/11	128.000	150.000	300.000	375.000	300.000	600.000	300.000	0.000	600.000	0.000
			157.920	314.400	392.100	310.080	623.040	305.760.	5.760	625.920	0.000
	0.857/12	160.000	150.000	300.000	375.000	300.000	600.000	300.000	0.000	600.000	0.000
			157.920	314.400	392.100	310.080	623.040	305.760	5.760	625.920	0.000
	0.857/13	192.000	150.000	300.000	375.000	300.000	600.000	300.000	0.000	600.000	0.000
			157.920	314.400	392.100	310.080	623.040	305.760	5.760	625.920	0.000
	0.857/14	208.000	150.000	300.000	375.000	300.000	600.000	300.000	0.000	600.000	0.000
			157.920	314.400	392.100	310.080	623.040	305.760	5.760	625.920	0.000
	0.857/15	224.000	150.000	300.000	375.000	300.000	600.000	300.000	0.000	600.000	0.000
			157.920	314.400	392.100	310.080	623.040	305.760	5.760	625.920	0.000
	0.857/16	240.000	150.000	300.000	375.000	300.000	600.000	300.000	0.000	600.000	0.000
			157.920	314.400	392.100	310.080	623.040	305.760	5.760	625.920	0.000
	0.943	240.000	165.000	330.000	412.500	330.000	660.000	330.000	0.000	660.000	0.000
			172.920	344.400	429.600	340.080	683.040	335.760	5.760	685.920	0.000
	1.000	240.000	175.000	350.000	437.500	350.000	700.000	350.000	0.000	700.000	0.000
			182.920	364.400	454.600	360.080	723.040	355.760	5.760	725.920	0.000

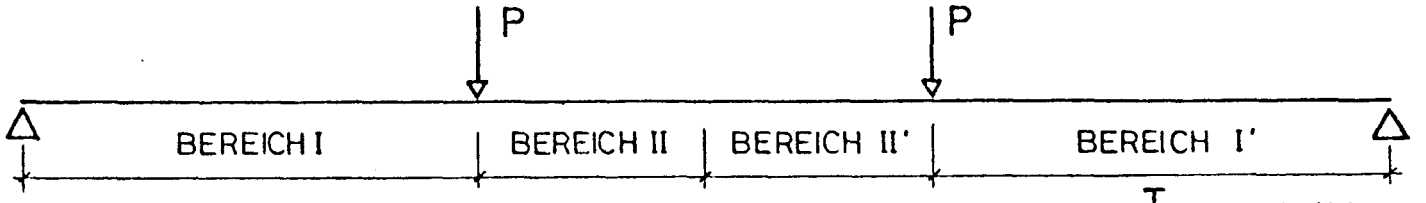
** = OBERLAST DER DYNAMISCHEN BEANSPRUCHUNG

10000 LASTWECHSEL

* = UNTERLAST DER DYNAMISCHEN BEANSPRUCHUNG

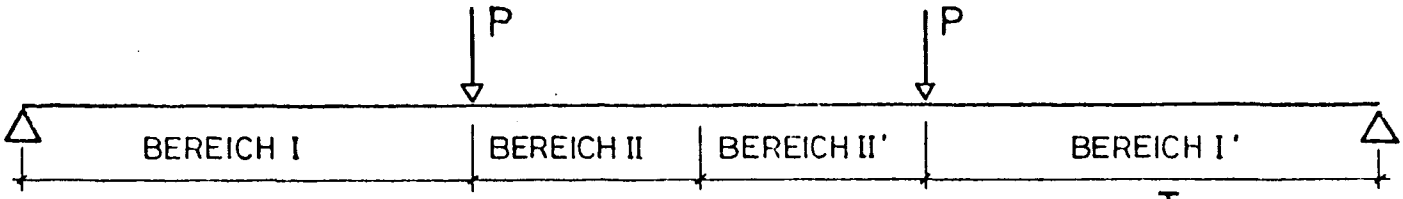
B Rißbilder und -weiten

RISSENTWICKLUNG DES VERSUCHSBALKENS SETMQ1 VORN



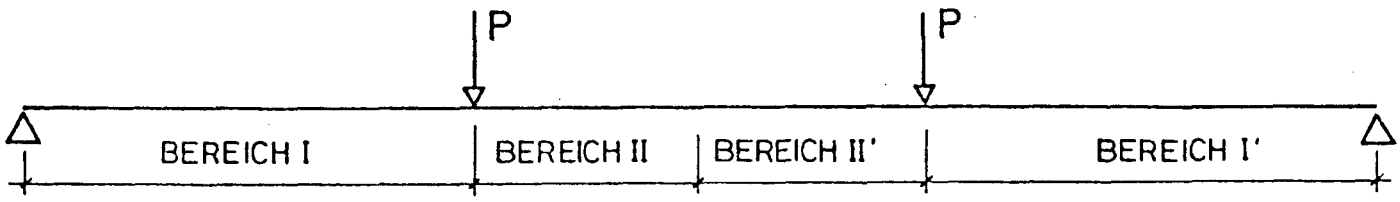
T [kNm]	M/M$_U$
0	0.80
0	0.86
32	0.86/3
80	0.86/6
112	0.40/3
64	0.86/9
128	0.86/11
160	0.86/12
192	0.86/13
208	0.86/14
224	0.86/15
240	0.86/16
240	0.94

RISSENTWICKLUNG DES VERSUCHSBALKENS SETMQ 1 HINTEN



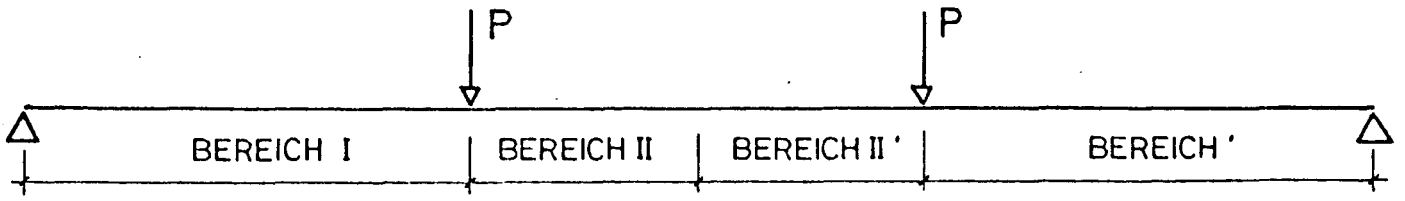
T [kNm]	M/M$_U$
0	0,8
0	0,86
32	0,86/3
80	0,86/6
112	0,40/3
64	0,86/9
128	0,86/11
160	0,86/12
192	0,86/13
208	0,86/14
224	0,86/15
240	0,86/16
240	0,94

RISSENTWICKLUNG DES VERSUCHSBALKENS SETMQ1 OBEN



				T [kNm]	M/M_U		
				160	0,86/12		
				192	0,86/13		
				208	0,86/14		
				224	0,86/15		
				240	0,86/16		

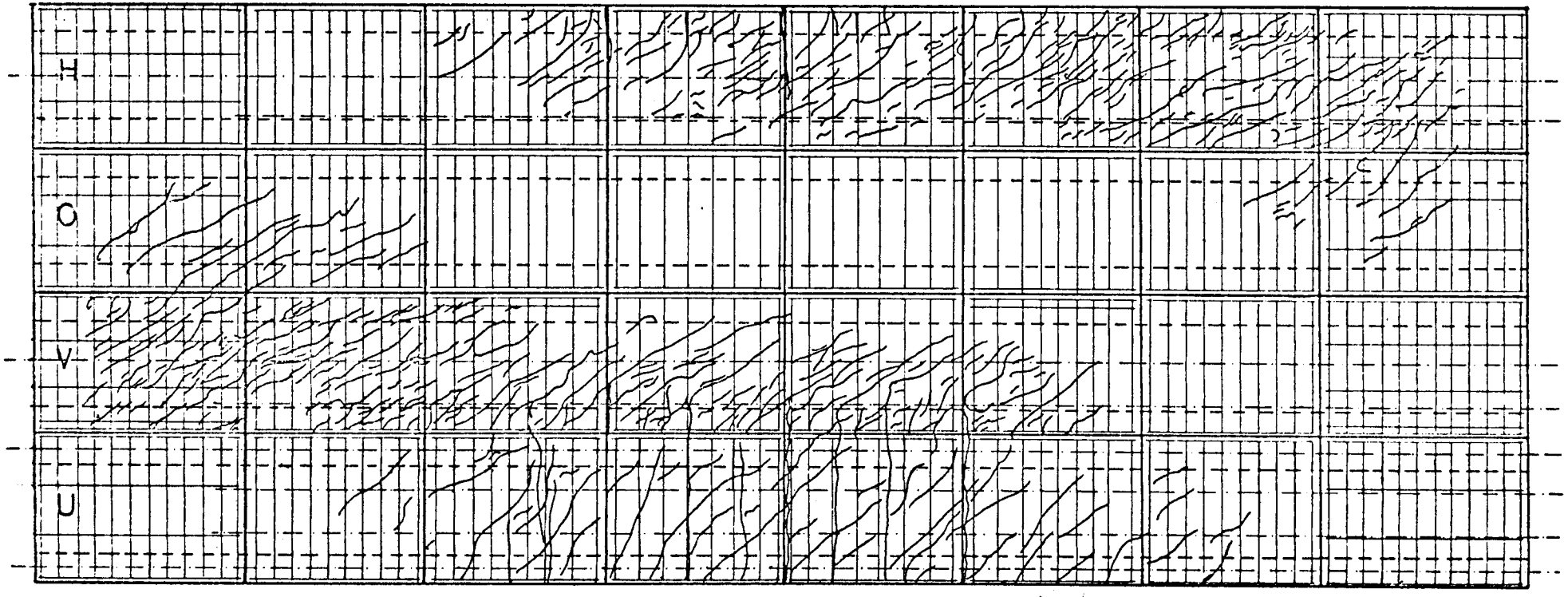
RISSENTWICKLUNG DES VERSUCHSBALKENS SETMQ1 UNTEN



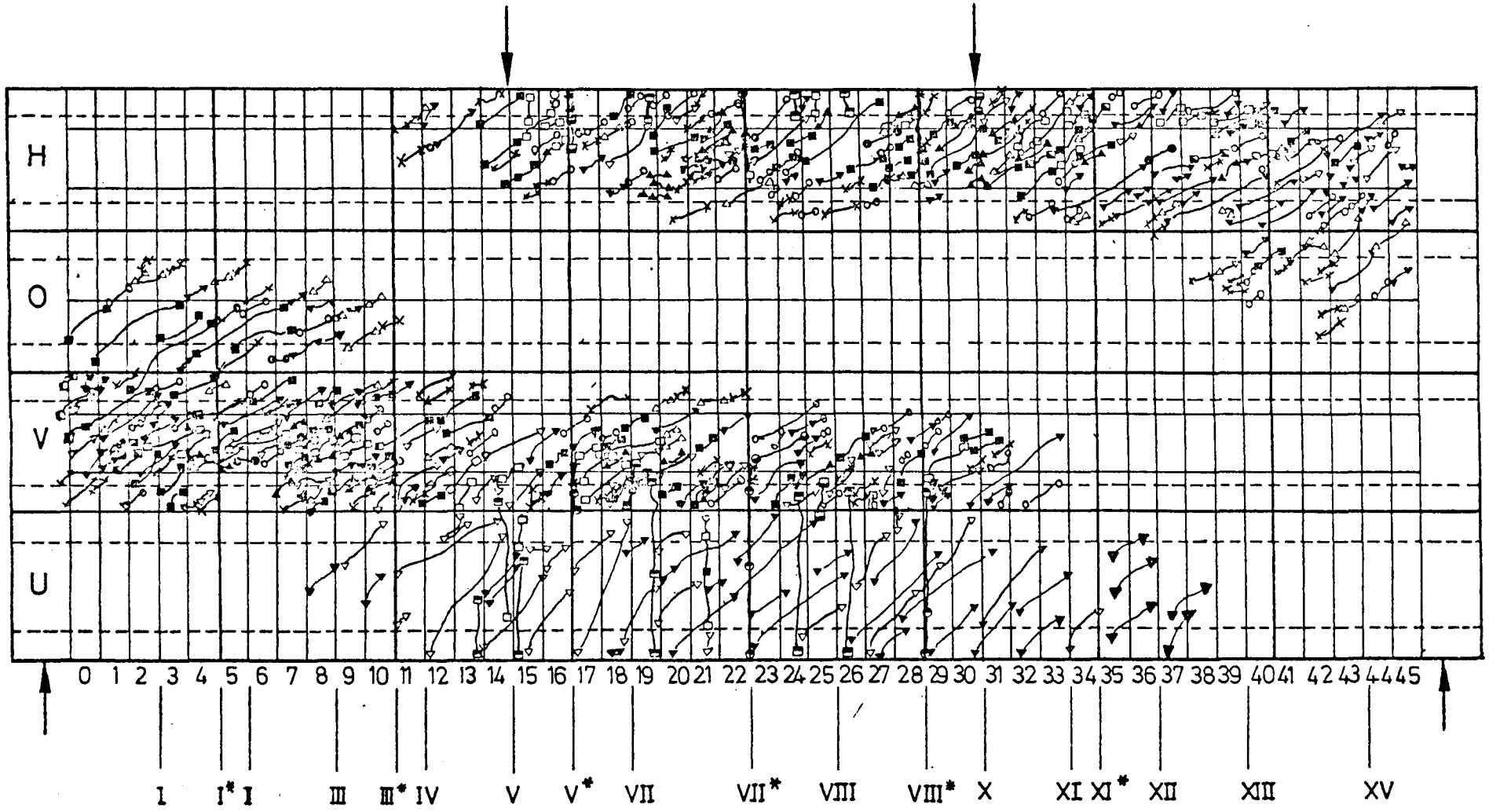
	T [kNm]	M/M_U
	0	0,74
	0	0,86
	80	0,86/6
	128	0,86/11
	192	0,86/13

Rißbild des Versuchsbalkens SETMQ 1

mit Bewehrungsanordnung



RISSBILD DES VERSUCHSBALKENS SETMQ 1

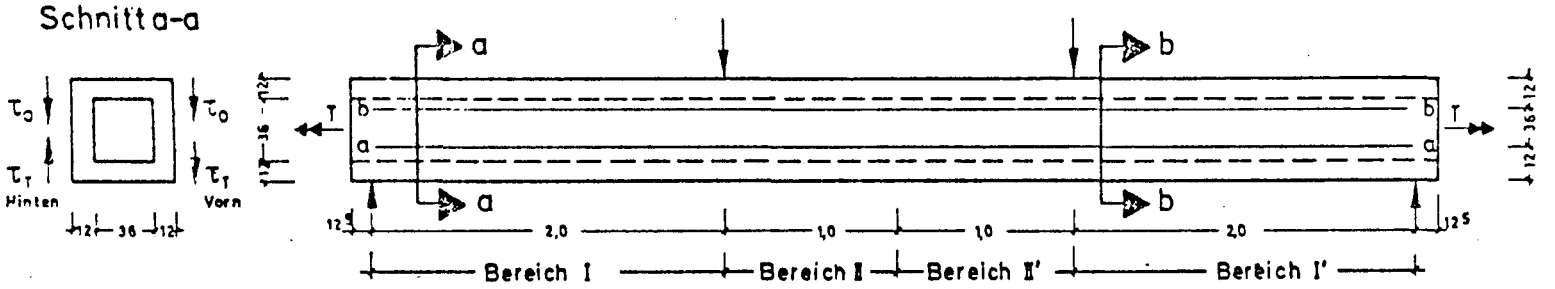


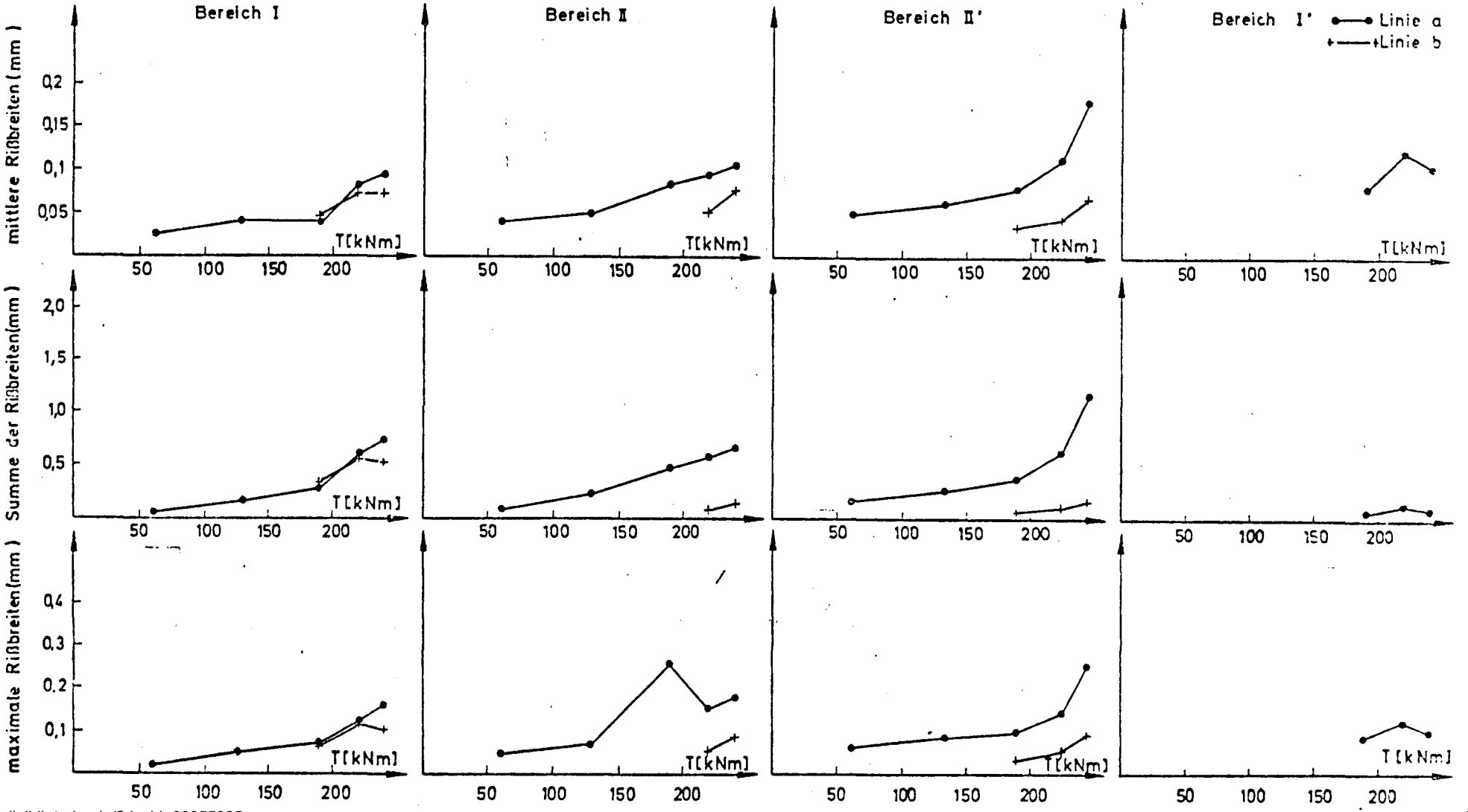
LEGENDE

M/M_U

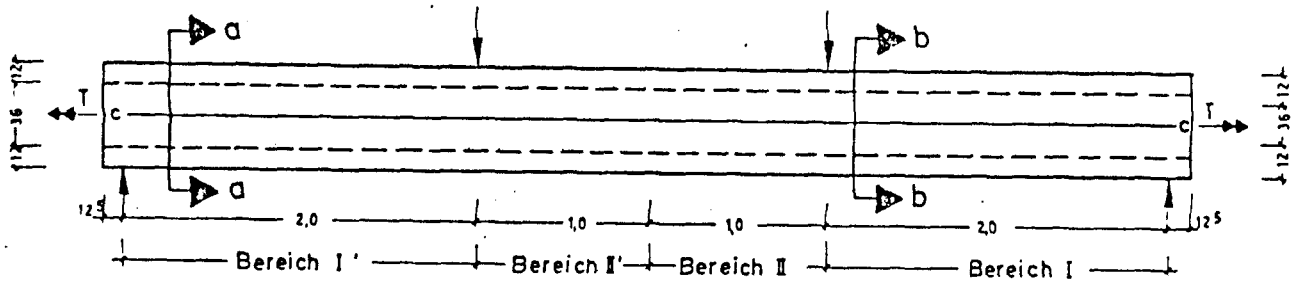
- 0,743
- 0,800
- 0,857
- 0,857/1
- 0,857/3
- 0,857/6
- 0,400/1
- 0,400/3
- 0,857/9
- 0,857/10
- 0,857/11
- 0,857/12
- 0,857/13
- 0,857/14
- 0,857/15
- 0,857/16
- 0,943

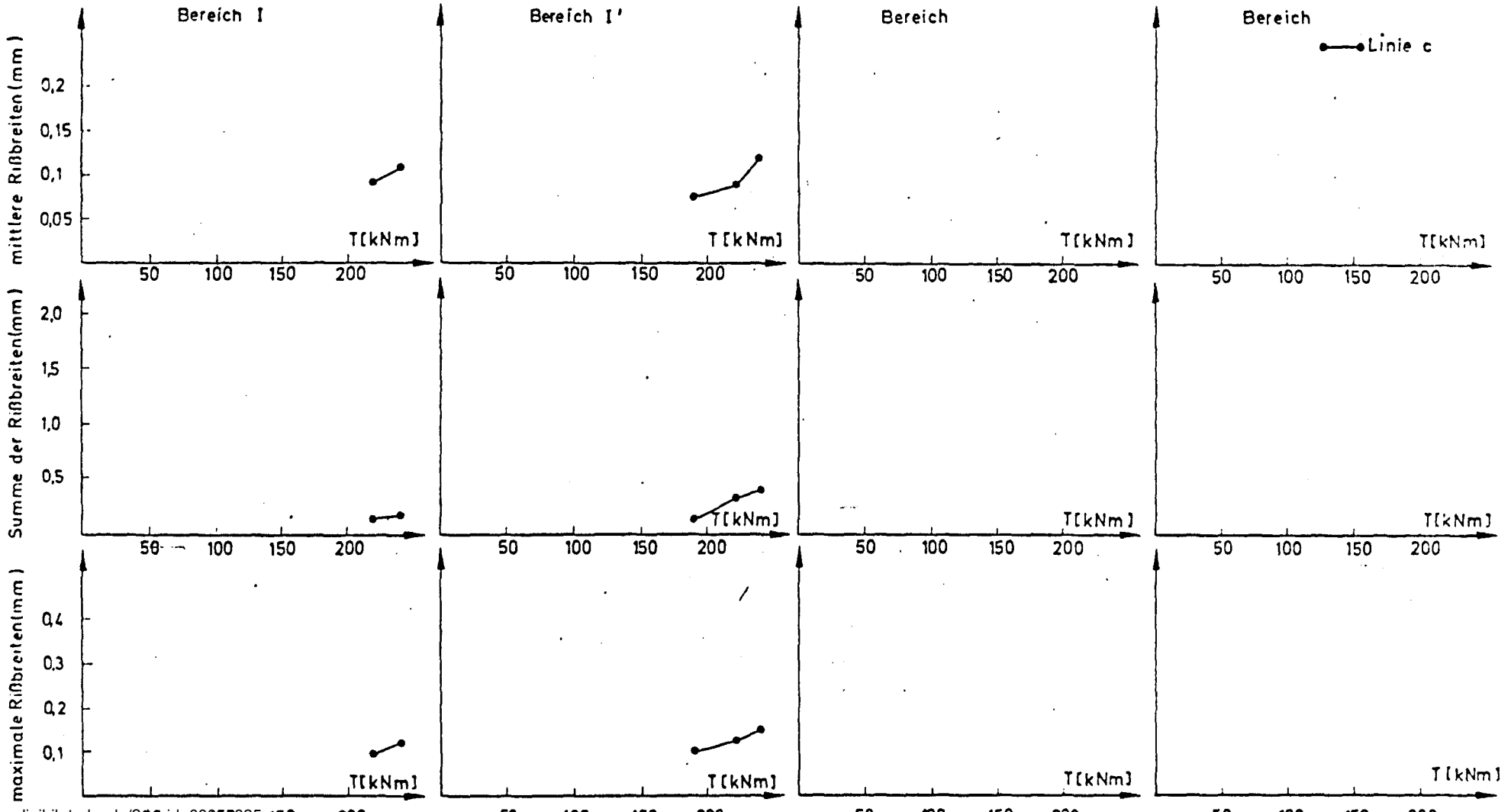
Gemessene Rißbreiten des Versuchsbalkens SETMQ1 an der Hinterseite



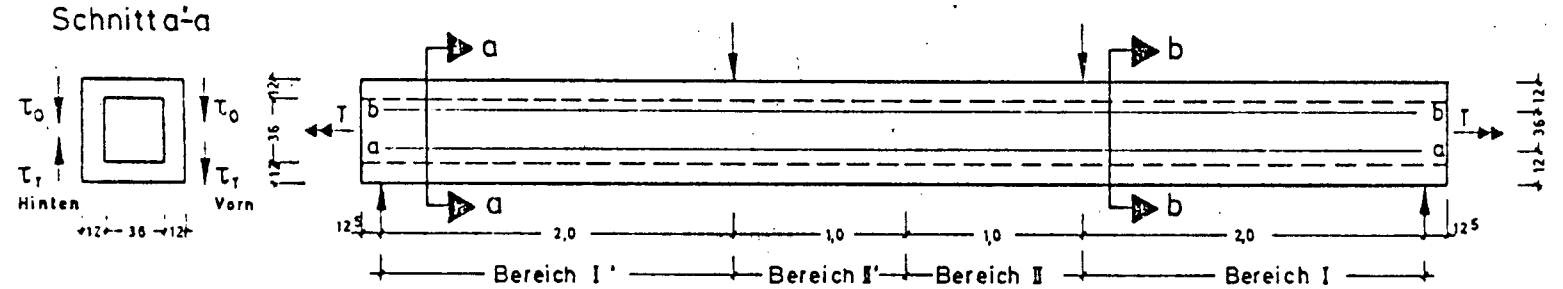


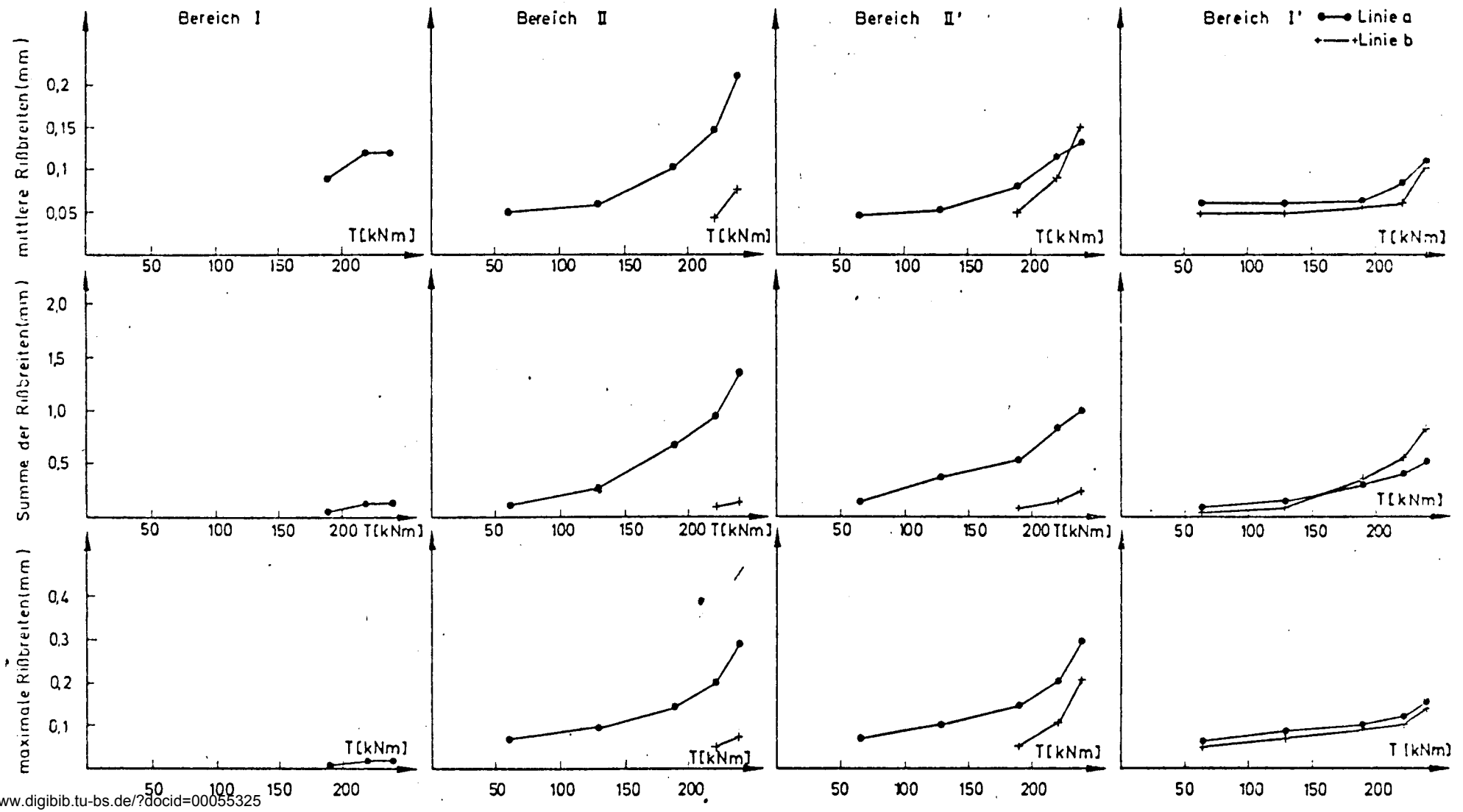
Gemessene Rißbreiten des Versuchsbalkens SETMQ1 an der Oberseite





Gemessene Rißbreiten des Versuchsbalkens SETMQ1 an der Vorderseite





C Dehnungen der Bewehrung (Tabellenform)

SUCHSBALKEN SETMQ 1 GEPRUEFT AM 19. 5. 1978

MITTELTE STAHLDEHNUNGEN IN PROMILLE IM SCHNITT 1

BELASTUNGSGRAD M/MU

SSTELLE	0.000	0.114	0.229	0.229	0.343	0.457	0.514	0.571	0.629	0.686	0.743	0.800	0.857	0.000	0.85
				1										1	1
1	-0.187	-0.183	-0.183	-0.177	-0.161	-0.169	-0.165	-0.155	-0.151	-0.161	-0.148	-0.155	-0.148	-0.183	-0.20
2	-0.185	-0.185	-0.169	-0.175	-0.159	-0.167	-0.161	-0.151	-0.146	-0.155	-0.142	-0.149	-0.142	-0.181	-0.19
3	-0.185	-0.181	-0.165	-0.183	-0.173	-0.163	-0.173	-0.157	-0.153	-0.155	-0.151	-0.144	-0.151	-0.191	-0.19
4	-0.209	-0.205	-0.195	-0.213	-0.191	-0.199	-0.201	-0.195	-0.193	-0.213	-0.195	-0.211	-0.195	-0.215	-0.25
7	-0.187	-0.203	-0.173	-0.181	-0.165	-0.173	-0.171	-0.159	-0.157	-0.169	-0.157	-0.165	-0.159	-0.187	-0.21
9	-0.166	-0.187	-0.158	-0.166	-0.156	-0.168	-0.166	-0.160	-0.158	-0.170	-0.162	-0.170	-0.168	-0.166	-0.22
11	-0.177	-0.191	-0.155	-0.163	-0.145	-0.143	-0.134	-0.114	-0.095	-0.081	-0.042	-0.017	0.018	-0.091	0.00
12	-0.191	-0.191	-0.173	-0.183	-0.165	-0.169	-0.163	-0.148	-0.136	-0.138	-0.111	-0.101	-0.068	-0.132	-0.09
13	-0.175	-0.177	-0.159	-0.169	-0.157	-0.163	-0.159	-0.149	-0.145	-0.155	-0.143	-0.147	-0.136	-0.165	-0.18
14	-0.109	-0.095	-0.089	-0.091	-0.087	-0.077	-0.077	-0.079	-0.077	-0.075	-0.077	-0.073	-0.073	-0.075	-0.07
15	-0.037	-0.039	-0.041	-0.037	-0.035	-0.031	-0.031	-0.035	-0.035	-0.035	-0.037	-0.035	-0.037	-0.015	-0.04
16	-0.205	-0.217	-0.254	-0.240	-0.260	-0.281	-0.289	-0.299	-0.310	-0.314	-0.324	-0.332	-0.343	-0.195	-0.35
19	-0.244	-0.250	-0.267	-0.267	-0.283	-0.295	-0.308	-0.318	-0.328	-0.338	-0.349	-0.357	-0.365	-0.232	-0.37
22	2.507	2.499	2.501	2.489	2.491	2.505	2.493	2.489	2.484	2.484	2.482	2.482	2.478	2.464	2.43
23	2.392	2.408	2.416	2.359	2.406	2.380	2.332	2.384	2.363	2.367	2.341	2.320	2.355	2.414	2.39
24	-0.630	-0.604	-0.585	-0.583	-0.565	-0.540	-0.530	-0.524	-0.513	-0.501	-0.495	-0.483	-0.472	-0.598	-0.48
27	-0.645	-0.615	-0.598	-0.592	-0.574	-0.553	-0.539	-0.531	-0.520	-0.510	-0.502	-0.487	-0.479	-0.611	-0.49
28	2.269	2.301	2.318	2.320	2.342	2.369	2.379	2.388	2.400	2.412	2.423	2.437	2.449	2.297	2.43
29	2.351	2.377	2.418	2.400	2.422	2.449	2.461	2.470	2.484	2.496	2.505	2.519	2.529	2.377	2.51

SUCHSBALKEN SETMQ1 GEPRUEFT AM 19. 5. 1978
****

MITTELTE STAHLDEHNUNGEN IN PROMILLE IM SCHNITT 1
****

BELASTUNGSGRAD M/MU

SSTELLE	0.857	0.857	0.857	0.857	0.857	0.686	0.571	0.400	0.400	0.400	0.100	0.000	0.429	0.857	0.85
	2	3	4	5	6	1	1	1	2	3		3		1	
1	-0.203	-0.189	-0.214	-0.199	-0.195	-0.203	-0.195	-0.195	-0.205	-0.187	-0.208	-0.228	-0.218	-0.191	-0.19
2	-0.193	-0.181	-0.203	-0.189	-0.187	-0.193	-0.185	-0.185	-0.193	-0.173	-0.189	-0.224	-0.214	-0.183	-0.18
3	-0.197	-0.199	-0.216	-0.203	-0.206	-0.216	-0.208	-0.206	-0.224	-0.199	-0.220	-0.242	-0.224	-0.197	-0.20
4	-0.254	-0.227	-0.238	-0.217	-0.197	-0.197	-0.207	-0.207	-0.211	-0.197	-0.207	-0.244	-0.242	-0.215	-0.21
7	-0.212	-0.205	-0.251	-0.238	-0.240	-0.238	-0.222	-0.220	-0.228	-0.210	-0.220	-0.242	-0.238	-0.218	-0.22
9	-0.221	-0.207	-0.230	-0.215	-0.213	-0.215	-0.203	-0.195	-0.207	-0.187	-0.189	-0.221	-0.228	-0.219	-0.22
11	0.038	0.106	0.155	0.209	0.239	0.211	0.196	0.163	0.163	0.198	0.128	-0.071	0.016	0.139	0.17
12	-0.091	-0.085	-0.118	-0.109	-0.118	-0.136	-0.134	-0.144	-0.159	-0.142	-0.159	-0.173	-0.138	-0.062	-0.07
13	-0.177	-0.141	-0.102	-0.048	-0.007	-0.011	-0.011	-0.024	-0.028	-0.001	-0.034	-0.136	-0.114	-0.038	-0.02
14	-0.077	-0.079	-0.075	-0.077	-0.075	-0.079	-0.075	-0.073	-0.070	-0.073	-0.066	-0.081	-0.083	-0.079	-0.07
15	-0.045	-0.045	-0.039	-0.037	-0.031	-0.029	-0.025	-0.019	-0.015	-0.019	-0.005	-0.017	-0.025	-0.035	-0.03
16	-0.355	-0.353	-0.347	-0.338	-0.322	-0.306	-0.283	-0.258	-0.250	-0.244	-0.189	-0.213	-0.285	-0.343	-0.33
19	-0.380	-0.382	-0.375	-0.380	-0.382	-0.367	-0.349	-0.314	-0.314	-0.318	-0.256	-0.250	-0.320	-0.388	-0.39
22	2.443	2.443	2.460	2.470	2.482	2.489	2.476	2.478	2.478	2.480	2.484	2.435	2.439	2.450	2.46
23	2.388	2.390	2.386	2.384	2.382	2.388	2.388	2.392	2.402	2.398	2.412	2.386	2.382	2.367	2.37
24	-0.479	-0.476	-0.456	-0.452	-0.440	-0.470	-0.479	-0.505	-0.503	-0.505	-0.550	-0.608	-0.546	-0.474	-0.46
27	-0.491	-0.491	-0.496	-0.494	-0.491	-0.516	-0.526	-0.549	-0.543	-0.545	-0.582	-0.625	-0.563	-0.506	-0.50
28	2.443	2.445	2.466	2.470	2.482	2.453	2.435	2.406	2.406	2.408	2.357	2.287	2.359	2.443	2.45
29	2.515	2.513	2.521	2.521	2.525	2.502	2.482	2.453	2.455	2.453	2.410	2.363	2.431	2.509	2.51

VERSUCHSBALKEN SETMQ1 GEPRUEFT AM 19. 5. 1978

****

ERMITTELTE STAHLDEHNUNGEN IN PROMILLE IM SCHNITT 1

****

BELASTUNGSGRAD M/MU

MESSTELLE	0.857	0.857	0.857	0.857	0.857	0.857	0.857	0.857	0.943	1.000
	9	10	11	12	13	14	15	16		
1	-0.181	-0.185	-0.007	0.147	0.219	0.246	0.299	0.322	0.322	0.344
2	-0.169	-0.169	-0.151	-0.103	0.034	0.102	0.186	0.244	0.264	0.293
3	-0.201	-0.201	-0.199	-0.212	-0.199	-0.155	-0.083	-0.044	-0.034	-0.009
4	-0.187	-0.152	0.002	0.027	0.103	0.144	0.218	0.279	0.285	0.314
7	-0.212	-0.218	-0.218	-0.234	-0.232	-0.230	-0.183	-0.036	0.001	0.034
9	-0.205	-0.207	-0.199	-0.197	-0.140	-0.088	0.012	0.119	0.168	0.220
11	0.231	0.285	0.352	0.451	0.625	0.710	0.790	0.855	0.890	0.913
12	-0.072	-0.091	-0.105	-0.132	-0.134	-0.138	-0.118	-0.085	-0.079	-0.050
13	0.018	0.075	0.293	0.679	0.896	1.015	1.124	1.215	1.276	1.278
14	-0.075	-0.070	-0.073	-0.073	-0.070	-0.058	-0.009	0.028	0.042	0.065
15	-0.029	-0.019	0.047	0.264	0.533	0.659	0.806	0.901	0.983	0.999
16	-0.320	-0.281	-0.072	0.394	0.665	0.844	1.043	1.213	1.277	1.296
19	-0.392	-0.400	-0.406	-0.412	-0.433	-0.435	-0.412	-0.369	-0.398	-0.353
22	2.470	2.493	2.533	2.638	2.767	2.833	2.927	2.995	3.036	3.065
23	2.367	2.367	2.359	2.359	2.341	2.335	2.351	2.349	2.345	2.361
24	-0.456	-0.455	-0.401	-0.310	-0.216	-0.150	-0.086	-0.055	0.010	0.035
27	-0.500	-0.496	-0.496	-0.473	-0.461	-0.457	-0.438	-0.430	-0.426	-0.457
28	2.466	2.486	2.519	2.568	2.636	2.687	2.763	2.809	2.874	2.887
29	2.509	2.519	2.551	2.576	2.609	2.634	2.677	2.710	2.749	2.743

RSUCHSBALKEN SETMQ1 GEPRUEFT AM 19. 5. 1978

****

RMITTELTE STAHLDEHNUNGEN IN PROMILLE IM SCHNITT 1*

****

BELASTUNGSGRAD M/MU

ESSTELLE	0.000	0.114	0.229	0.229	0.343	0.457	0.514	0.571	0.629	0.686	0.743	0.800	0.857	0.000	0.0
				1										1	
23	3.010	3.038	3.036	3.028	3.028	3.042	3.024	3.020	3.030	3.022	3.016	3.026	3.012	3.012	3.0
28	2.271	2.322	2.349	2.355	2.383	2.412	2.427	2.437	2.464	2.470	2.484	2.505	2.517	2.318	2.5
29	2.320	2.375	2.393	2.404	2.434	2.457	2.474	2.486	2.510	2.517	2.531	2.554	2.566	2.352	2.5

ERSUCHSBALKEN SETM01 GEPRUEFT AM 19. 5. 1978

ERMITTELTE STAHLDEHNUNGEN IN PROMILLE IM SCHNITT 1*

BELASTUNGSGRAD M/MU

MESSTELLE	0.857	0.857	0.857	0.857	0.857	0.686	0.571	0.400	0.400	0.400	0.100	0.000	0.429	0.857	0..
	2	3	4	5	6	1	1	1	2	3		3		1	
23	3.022	2.994	3.018	3.020	3.010	3.010	3.016	3.014	3.008	3.012	3.032	3.008	3.014	2.973	2..
28	2.527	2.523	2.542	2.546	2.546	2.509	2.492	2.443	2.451	2.455	2.400	2.328	2.429	2.513	2..
29	2.566	2.558	2.576	2.580	2.580	2.545	2.523	2.471	2.484	2.488	2.432	2.363	2.461	2.545	2..

VERSUCHSBALKEN SETMQ1 GEPRUEFT AM 19. 5. 1978

****

ERMITTELTE STAHLDEHNUNGEN IN PROMILLE IM SCHNITT 1*

****

BELASTUNGSGRAD M/MU

MESSTELLE	0.857	0.857	0.857	0.857	0.857	0.857	0.857	0.857	0.943	1.000
	9	10	11	12	13	14	15	16		
23	2.989	2.975	2.987	2.987	2.953	2.979	3.002	2.981	2.977	3.008
28	2.550	2.539	2.568	2.597	2.654	2.710	2.782	2.817	2.876	2.882
29	2.580	2.572	2.607	2.658	2.699	2.740	2.794	2.810	2.851	2.825

ERSUCHSBALKEN SETM01 GEPRUEFT AM 19. 5. 1978
****

ERMITTELTE STAHLDEHNUNGEN IN PROMILLE IM SCHNITT 3
****

BELASTUNGSGRAD M/MU

MESSTELLE	0.000	0.114	0.229	0.229 (1)	0.343	0.457	0.514	0.571	0.629	0.686	0.743	0.800	0.857	0.000 (1)	0.*
1	-0.129	-0.105	-0.090	-0.088	-0.074	-0.062	-0.051	-0.045	-0.041	-0.037	-0.029	-0.021	-0.017	-0.082	-0.0
2	0.033	0.045	0.051	0.047	0.045	0.053	0.067	0.053	0.045	0.039	0.094	0.084	0.084	0.002	0.1
3	-0.131	-0.107	-0.095	-0.090	-0.078	-0.064	-0.053	-0.045	-0.039	-0.033	-0.023	-0.014	-0.006	-0.076	-0.0
4	-0.125	-0.103	-0.093	-0.089	-0.078	-0.068	-0.058	-0.052	-0.050	-0.045	-0.039	-0.033	-0.027	-0.072	-0.0
7	-0.121	-0.101	-0.078	-0.087	-0.074	-0.062	-0.052	-0.046	-0.041	-0.037	-0.029	-0.023	-0.019	-0.064	-0.0
8	-0.103	-0.091	-0.081	-0.091	-0.091	-0.093	-0.091	-0.093	-0.097	-0.101	-0.101	-0.103	-0.107	-0.069	-0.1
9	-0.084	-0.078	-0.068	-0.074	-0.068	-0.080	-0.072	-0.076	-0.082	-0.088	-0.088	-0.092	-0.092	-0.048	-0.1
11	-0.045	-0.035	-0.033	-0.029	-0.023	-0.027	-0.015	-0.013	-0.013	-0.011	-0.006	0.002	0.008	-0.006	0.0
12	-0.080	-0.054	-0.054	-0.048	-0.052	-0.058	-0.044	-0.039	-0.035	-0.033	-0.033	-0.029	-0.029	-0.029	-0.0
13	-0.047	-0.049	-0.043	-0.045	-0.045	-0.045	-0.045	-0.047	-0.047	-0.047	-0.049	-0.047	-0.047	-0.025	-0.0
14	-0.057	-0.023	-0.033	-0.016	-0.023	-0.031	-0.018	-0.016	-0.018	-0.018	-0.018	-0.016	-0.023	0.004	-0.0
15	-0.027	-0.009	-0.011	-0.011	-0.017	-0.019	-0.021	-0.025	-0.025	-0.023	-0.027	-0.031	-0.035	0.018	-0.0
16	-0.209	-0.254	-0.306	-0.312	-0.367	-0.433	-0.470	-0.499	-0.533	-0.570	-0.603	-0.644	-0.683	-0.293	-0.4
19	-0.253	-0.306	-0.356	-0.362	-0.421	-0.487	-0.526	-0.561	-0.596	-0.641	-0.676	-0.723	-0.764	-0.347	-0.7
22	2.940	2.948	2.954	2.952	2.946	2.952	2.942	2.942	2.940	2.936	2.958	2.968	2.995	2.989	3.0
23	2.485	2.485	2.501	2.483	2.477	2.475	2.469	2.464	2.464	2.458	2.454	2.450	2.448	2.454	2.4
27	-0.869	-0.820	-0.775	-0.761	-0.715	-0.676	-0.653	-0.609	-0.580	-0.551	-0.525	-0.496	-0.467	-0.837	-0.4
28	2.057	2.132	2.151	2.147	2.196	2.254	2.276	2.303	2.330	2.360	2.389	2.426	2.455	2.063	2.4
29	2.392	2.435	2.484	2.484	2.529	2.585	2.609	2.636	2.665	2.700	2.728	2.761	2.794	2.402	2.7
30	3.735	3.763	3.798	3.796	3.827	3.868	3.886	3.905	3.925	3.946	3.964	3.985	4.010	3.733	4.0
31	3.735	3.757	3.788	3.854	3.882	3.909	3.919	3.932	3.950	4.006	4.020	4.034	4.057	3.780	4.2

RSUCHSBALKEN SETMQ1 GEPRUEFT AM 19. 5. 1978

RMITTELTE STAHLDEHNUNGEN IN PROMILLE IM SCHNITT 3

BELASTUNGSGRAD M/MU

ESSTELLE	0.857 2	0.857 3	0.857 4	0.857 5	0.857 6	0.686 1	0.571 1	0.400 1	0.400 2	0.400 3	0.100	0.000 3	0.429	0.857 7	0.8
1	-0.033	-0.035	-0.031	-0.025	-0.027	-0.031	-0.033	-0.043	-0.035	-0.033	-0.043	-0.076	-0.045	-0.017	-0.0
2	0.203	0.164	0.069	0.248	0.184	0.162	0.197	0.180	0.184	0.187	0.189	0.166	0.170	0.197	0.2
3	-0.019	-0.019	-0.027	-0.023	-0.031	-0.039	-0.043	-0.056	-0.051	-0.049	-0.066	-0.084	-0.051	-0.019	-0.0
4	-0.039	-0.031	-0.019	0.002	0.012	0.010	0.008	0.004	0.008	0.010	-0.002	-0.037	-0.011	0.014	0.0
7	-0.031	-0.033	-0.039	-0.039	-0.046	-0.052	-0.052	-0.058	-0.054	-0.050	-0.058	-0.076	-0.058	-0.037	-0.0
8	-0.124	-0.121	-0.113	-0.099	-0.085	-0.073	-0.069	-0.060	-0.056	-0.052	-0.034	-0.060	-0.075	-0.085	-0.0
9	-0.113	-0.111	-0.123	-0.123	-0.129	-0.117	-0.109	-0.094	-0.088	-0.084	-0.058	-0.070	-0.096	-0.125	-0.1
11	0.035	0.080	0.180	0.248	0.351	0.351	0.334	0.306	0.320	0.332	0.289	0.127	0.191	0.293	0.3
12	-0.017	-0.023	-0.033	-0.033	-0.037	-0.037	-0.015	-0.017	-0.002	-0.002	0.016	-0.011	-0.011	-0.009	-0.0
13	-0.035	-0.021	0.049	0.076	0.113	0.102	0.104	0.102	0.107	0.111	0.111	0.053	0.051	0.082	0.1
14	-0.023	-0.023	-0.037	-0.037	-0.041	-0.014	-0.010	-0.008	0.002	0.000	0.021	0.008	-0.006	-0.019	-0.0
15	-0.029	-0.029	-0.011	-0.005	0.001	-0.005	0.005	0.022	0.020	0.020	0.044	0.024	0.003	-0.021	-0.0
16	-0.702	-0.700	-0.700	-0.692	-0.679	-0.603	-0.568	-0.496	-0.486	-0.484	-0.340	-0.316	-0.507	-0.698	-0.6
19	-0.803	-0.814	-0.836	-0.848	-0.863	-0.797	-0.740	-0.651	-0.643	-0.645	-0.477	-0.401	-0.616	-0.848	-0.8
22	3.057	3.089	3.360	3.441	3.480	3.477	3.473	3.463	3.475	3.484	3.480	3.319	3.393	3.445	3.4
23	2.428	2.423	2.421	2.421	2.419	2.417	2.421	2.428	2.434	2.434	2.454	2.417	2.403	2.399	2.4
27	-0.473	-0.459	-0.465	-0.461	-0.453	-0.516	-0.555	-0.633	-0.615	-0.617	-0.736	-0.839	-0.668	-0.481	-0.4
28	2.473	2.445	2.498	2.494	2.519	2.416	2.387	2.328	2.284	2.291	2.157	2.055	2.235	2.453	2.4
29	2.771	2.771	2.802	2.829	2.849	2.790	2.718	2.632	2.632	2.630	2.502	2.398	2.572	2.792	2.8
30	4.059	4.071	4.112	4.114	4.118	4.065	4.028	3.967	3.973	3.973	3.880	3.808	3.923	4.092	4.1
31	4.213	4.201	4.106	4.108	4.108	4.118	4.075	4.020	4.026	4.016	3.930	3.655	3.810	3.952	3.9

VERSUCHSBALKEN SETMQ1 GEPRUEFT AM 19. 5. 1978

****

ERMITTELTE STAHLDEHNUNGEN IN PROMILLE IM SCHNITT 3

****

BELASTUNGSGRAD M/MU

MESSTELLE	0.857	0.857	0.857	0.857	0.857	0.857	0.857	0.857	0.943	1.000
	9	10	11	12	13	14	15	16		
1	-0.006	0.000	0.004	0.068	0.466	0.528	0.622	0.682	0.696	0.677
2	0.209	0.213	0.209	0.301	0.421	0.453	0.525	0.583	0.640	0.649
3	-0.012	-0.012	-0.012	-0.008	0.004	0.027	0.059	0.088	0.125	0.150
4	0.037	0.055	0.135	0.357	0.544	0.622	0.710	0.776	0.842	0.805
7	-0.031	-0.027	-0.027	-0.029	0.002	0.020	0.053	0.076	0.115	0.164
8	-0.062	-0.052	0.071	0.317	0.471	0.556	0.681	0.784	0.864	0.765
9	-0.119	-0.119	-0.062	0.008	0.355	0.499	0.607	0.694	0.772	0.667
11	0.388	0.488	0.681	0.866	0.879	0.932	1.006	1.047	1.080	0.905
12	-0.005	-0.009	-0.013	-0.009	0.024	0.053	0.121	0.170	0.250	0.295
13	0.129	0.189	0.281	0.579	0.690	0.741	0.821	0.858	0.885	0.720
14	-0.016	-0.018	-0.021	-0.014	0.055	0.113	0.187	0.242	0.285	0.314
15	-0.011	0.012	0.143	0.831	1.012	1.122	1.241	1.311	1.365	1.069
16	-0.683	-0.665	-0.636	-0.622	-0.548	-0.509	-0.427	-0.371	-0.371	-0.371
19	-0.875	-0.902	-0.945	-1.019	-1.091	-1.140	-1.146	-1.175	-1.302	-1.171
22	3.477	3.506	3.570	3.689	3.802	3.864	3.970	4.026	4.094	3.954
23	2.409	2.407	2.409	2.417	2.440	2.452	2.499	2.519	2.558	2.515
27	-0.463	-0.449	-0.455	-0.434	-0.373	-0.375	-0.350	-0.338	-0.282	-0.356
28	2.479	2.504	2.640	2.942	3.106	3.243	3.377	3.422	3.566	3.112
29	2.817	2.856	2.901	2.971	3.069	3.116	3.172	3.203	3.303	3.123
30	4.114	4.145	4.168	4.303	4.546	4.659	4.792	4.880	5.026	4.741
31	3.954	3.964	3.985	4.010	4.053	4.079	4.145	4.162	4.281	4.178

RSUCHSBALKEN SETM01 GEPRUEFT AM 19. 5. 1978

ERMITTELTE STAHLDEHNUNGEN IN PROMILLE IM SCHNITT 3*

BELASTUNGSGRAD M/MU

MESSTELLE	0.857	0.857	0.857	0.857	0.857	0.686	0.571	0.400	0.400	0.400	0.100	0.000	0.429	0.857	0.8
	2	3	4	5	6	1	1	1	2	3		3		7	
30	3.987	3.991	3.999	4.026	4.032	3.950	3.901	3.819	3.827	3.827	3.710	3.593	3.739	3.960	3.9
31	3.537	3.541	3.554	3.560	3.564	3.508	3.473	3.414	3.422	3.426	3.332	3.278	3.420	3.590	3.6

VERSUCHSBALKEN SETM01 GEPRUEFT AM 19. 5. 1978

ERMITTELTE STAHLDEHNUNGEN IN PROMILLE IM SCHNITT 3*

BELASTUNGSGRAD M/MU

MESSTELLE	0.857	0.857	0.857	0.857	0.857	0.857	0.857	0.857	0.943	1.000
	9	10	11	12	13	14	15	16		
30	4.012	4.053	4.277	4.498	4.784	4.942	5.112	5.227	5.467	5.192
31	3.621	3.642	3.689	3.753	3.802	3.853	3.880	3.913	4.075	4.165

RSUCHSBALKEN SETMQ1 GEPRUEFT AM 19. 5. 1978

RMITTELTE STAHLDEHNUNGEN IN PROMILLE IM SCHNITT 5

BELASTUNGSGRAD M/MU

ESSTELLE	0.000	0.114	0.229	0.229	0.343	0.457	0.514	0.571	0.629	0.686	0.743	0.800	0.857	0.000	0.85
				1										1	
1	-0.029	-0.027	-0.013	-0.011	-0.005	0.010	0.016	0.020	0.028	0.034	0.040	0.053	0.063	0.012	0.05
2	-0.068	-0.052	-0.032	-0.034	-0.021	0.007	0.020	0.032	0.055	0.073	0.090	0.116	0.145	0.016	0.13
3	-0.033	-0.023	-0.013	-0.013	-0.003	0.016	0.024	0.028	0.038	0.047	0.055	0.067	0.081	0.010	0.07
4	-0.084	-0.086	-0.076	-0.070	-0.066	-0.056	-0.054	-0.048	-0.043	-0.041	-0.037	-0.033	-0.029	-0.053	-0.04
7	-0.092	-0.088	-0.076	-0.078	-0.078	-0.068	-0.066	-0.064	-0.058	-0.058	-0.053	-0.051	-0.047	-0.045	-0.04
8	-0.413	-0.399	-0.393	-0.301	-0.379	-0.446	-0.444	-0.479	-0.495	-0.350	-0.360	-0.379	-0.374	-0.440	-0.52
9	-0.062	-0.058	-0.060	-0.058	-0.068	-0.072	-0.078	-0.085	-0.087	-0.093	-0.093	-0.091	-0.095	-0.023	-0.10
11	-0.080	-0.078	-0.074	-0.072	-0.076	-0.074	-0.074	-0.076	-0.076	-0.080	-0.084	-0.092	-0.094	-0.057	-0.09
12	-0.064	-0.068	-0.064	-0.064	-0.068	-0.064	-0.064	-0.066	-0.064	-0.066	-0.072	-0.078	-0.085	-0.034	-0.08
13	-0.016	-0.026	-0.024	-0.022	-0.030	-0.032	-0.037	-0.041	-0.045	-0.051	-0.049	-0.041	-0.037	0.016	-0.03
14	-0.029	-0.029	-0.027	-0.025	-0.033	-0.037	-0.039	-0.045	-0.047	-0.052	-0.054	-0.037	-0.019	0.016	-0.01
15	-0.041	-0.041	-0.045	-0.039	-0.051	-0.055	-0.059	-0.066	-0.068	-0.076	-0.082	-0.082	-0.082	-0.009	-0.09
16	-0.193	-0.257	-0.341	-0.343	-0.427	-0.522	-0.579	-0.630	-0.686	-0.756	-0.819	-0.901	-0.979	-0.324	-1.03
19	-0.164	-0.236	-0.330	-0.330	-0.427	-0.534	-0.597	-0.655	-0.716	-0.796	-0.866	-0.961	-1.053	-0.336	-1.10
22	2.337	2.337	2.316	2.335	2.327	2.321	2.312	2.308	2.306	2.298	2.306	2.319	2.343	2.245	2.30
23	1.304	1.259	1.199	1.279	1.152	1.271	1.269	1.259	1.261	1.259	1.263	1.290	1.302	1.222	1.27
24	-1.035	-0.943	-0.853	-0.871	-0.787	-0.678	-0.631	-0.588	-0.524	-0.448	-0.366	-0.274	-0.105	-0.984	-0.07
27	-0.501	-0.428	-0.360	-0.372	-0.278	-0.191	-0.157	-0.118	-0.060	0.002	0.065	0.139	0.221	-0.569	0.18
28	2.218	2.300	2.357	2.382	2.454	2.526	2.585	2.620	2.671	2.729	2.795	2.885	3.000	2.281	2.99
29	2.086	2.168	2.248	2.254	2.330	2.406	2.467	2.511	2.560	2.613	2.687	2.792	2.921	2.186	2.95
30	3.862	3.929	3.989	3.970	4.028	4.100	4.126	4.151	4.190	4.241	4.301	4.379	4.471	3.884	4.44
31	4.493	4.560	4.620	4.620	4.675	4.729	4.778	4.803	4.842	4.883	4.961	5.026	5.096	4.556	5.15

RSUCHSBALKEN SETMQ1 GEPRUEFT AM 19. 5. 1978

RMITTELTE STAHLDEHNUNGEN IN PROMILLE IM SCHNITT 5

BELASTUNGSGRAD M/MU

ESSTELLE	0.857	0.857	0.857	0.857	0.857	0.686	0.571	0.400	0.400	0.400	0.100	0.000	0.429	0.857	0.8
	2	3	4	5	6	1	1	1	2	3		3		7	
1	0.055	0.057	0.061	0.065	0.069	0.067	0.063	0.055	0.059	0.059	0.046	0.005	0.030	0.063	0.0
2	0.159	0.161	0.174	0.180	0.194	0.161	0.139	0.102	0.108	0.110	0.067	0.036	0.106	0.198	0.2
3	0.081	0.084	0.088	0.092	0.102	0.096	0.090	0.079	0.084	0.084	0.055	0.008	0.042	0.088	0.0
4	-0.045	-0.048	-0.052	-0.058	-0.072	-0.086	-0.088	-0.090	-0.084	-0.084	-0.054	-0.043	-0.070	-0.050	-0.0
7	-0.066	-0.066	-0.068	-0.074	-0.076	-0.090	-0.096	-0.098	-0.094	-0.092	-0.051	-0.051	-0.082	-0.084	-0.0
8	-0.622	-0.622	-0.598	-0.503	-0.477	-0.514	-0.542	-0.559	-0.557	-0.538	-0.514	-0.575	-0.198	-0.169	-0.1
9	-0.109	-0.115	-0.119	-0.122	-0.095	-0.076	-0.066	-0.044	-0.038	-0.034	0.007	0.001	-0.036	-0.054	-0.0
11	-0.098	-0.094	-0.050	0.012	0.047	0.049	0.043	0.039	0.049	0.053	0.069	0.030	0.008	0.028	0.0
12	-0.089	-0.087	-0.078	-0.066	0.030	0.036	0.034	0.034	0.038	0.046	0.092	0.036	0.016	-0.030	0.0
13	-0.032	-0.028	0.014	0.070	0.127	0.127	0.119	0.115	0.123	0.127	0.148	0.111	0.080	0.094	0.1
14	-0.011	-0.015	-0.011	-0.011	0.007	0.007	0.007	0.014	0.020	0.018	0.044	0.034	0.005	0.012	0.0
15	-0.096	-0.092	-0.082	-0.074	-0.007	0.010	0.018	0.028	0.037	0.039	0.071	0.045	0.006	-0.045	-0.0
16	-1.068	-1.068	-1.080	-1.074	-1.060	-0.959	-0.879	-0.756	-0.739	-0.733	-0.483	-0.388	-0.710	-1.088	-1.0
19	-1.166	-1.185	-1.246	-1.275	-1.350	-1.221	-1.121	-0.961	-0.950	-0.953	-0.649	-0.497	-0.846	-1.269	-1.3
22	2.280	2.280	2.298	2.327	2.347	2.298	2.269	2.238	2.240	2.243	2.236	2.179	2.165	2.275	2.2
23	1.275	1.267	1.338	1.345	1.392	1.263	1.230	1.183	1.199	1.195	1.199	1.177	1.154	1.269	1.2
24	-0.027	-0.025	0.098	0.135	0.178	-0.089	-0.280	-0.508	-0.518	-0.518	-0.806	-1.011	-0.703	0.018	0.0
27	0.207	0.203	0.236	0.234	0.201	0.094	-0.046	-0.204	-0.208	-0.206	-0.450	-0.663	-0.362	0.117	0.1
28	3.024	3.035	3.047	3.080	3.197	3.018	2.903	2.716	2.729	2.733	2.497	2.298	2.558	3.098	3.1
29	2.997	3.007	3.059	3.090	3.235	2.987	2.851	2.652	2.650	2.652	2.408	2.250	2.531	3.133	3.1
30	4.498	4.482	4.525	4.560	4.590	4.436	4.321	4.188	4.176	4.174	3.997	3.852	4.052	4.492	4.5
31	5.178	5.201	5.234	5.273	5.398	5.250	5.119	4.955	4.975	4.979	4.794	4.417	4.620	5.074	5.1

VERSUCHSBALKEN SETMQ1 GEPRUEFT AM 19. 5. 1978

ERMITTELTE STAHLDEHNUNGEN IN PROMILLE IM SCHNITT 5

BELASTUNGSGRAD M/MU

MESSTELLE	0.857	0.857	0.857	0.857	0.857	0.857	0.857	0.857	0.943	1.000
	9	10	11	12	13	14	15	16		
1	0.075	0.081	0.085	0.088	0.114	0.133	0.207	0.229	0.244	0.272
2	0.221	0.244	0.266	0.305	0.387	0.435	0.513	0.552	0.597	0.580
3	0.102	0.116	0.131	0.155	0.207	0.244	0.318	0.359	0.468	0.595
4	-0.058	-0.070	-0.048	0.004	0.053	0.092	0.170	0.201	0.215	0.238
7	-0.076	-0.086	-0.094	-0.076	0.012	0.062	0.174	0.257	0.415	0.571
8	-0.128	-0.081	-0.009	0.124	0.227	0.258	2.476	3.315	3.580	2.835
9	-0.058	-0.056	0.005	0.073	0.295	0.494	0.593	0.656	0.960	0.843
11	0.071	0.133	0.279	0.410	0.517	0.581	0.683	0.729	0.724	0.466
12	0.059	0.163	0.297	0.467	0.623	0.722	0.857	0.948	1.032	0.498
13	0.174	0.277	0.386	0.524	0.653	0.721	0.856	0.885	0.881	0.622
14	0.024	0.044	0.135	0.279	0.404	0.480	0.591	0.640	0.695	0.428
15	0.020	0.131	0.285	0.460	0.704	0.827	0.969	1.055	1.170	0.985
16	-1.064	-1.047	-1.018	-0.971	-0.922	-0.928	-0.854	-0.846	-0.914	-1.113
19	-1.343	-1.415	-1.527	-1.710	-1.963	-2.189	-2.283	-2.456	-3.117	-3.361
22	2.302	2.347	2.392	2.454	2.523	2.569	2.663	2.704	2.858	2.425
23	1.316	1.384	1.478	1.618	1.761	1.852	1.963	2.002	2.225	1.622
24	0.121	0.264	0.420	0.572	0.739	0.872	1.004	1.065	1.254	0.513
27	0.112	0.151	0.141	0.143	0.076	0.086	0.217	0.281	0.566	0.078
28	3.213	3.404	3.616	3.862	4.283	4.589	4.831	5.016	5.464	5.386
29	3.248	3.328	3.416	3.558	3.790	3.975	4.096	4.172	4.480	4.363
30	4.541	4.605	4.679	4.818	4.993	5.137	5.303	5.385	5.724	5.091
31	5.201	5.314	5.478	5.663	5.887	6.035	6.193	6.318	6.922	7.287

SUCHSBALKEN SETMQ1 GEPRUEFT AM 19. 5. 1978
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MITTELTE STAHLDEHNUNGEN IN PROMILLE IM SCHNITT 5*
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BELASTUNGSGRAD M/MU

SSTELLE	0,000	0,114	0,229	0,229 (1)	0,343	0,457	0,514	0,571	0,629	0,686	0,743	0,800	0,857	0,000 (1)	0,8[illegible] (1)
22	1.669	1.685	1.683	1.685	1.683	1.671	1.675	1.665	1.663	1.657	1.667	1.683	1.720	1.683	1.7[illegible]
23	2.417	2.431	2.431	2.431	2.425	2.411	2.417	2.405	2.403	2.399	2.409	2.427	2.474	2.370	2.4[illegible]
28	1.848	1.903	1.973	1.969	2.034	2.110	2.092	2.106	2.145	2.190	2.303	2.443	2.599	1.622	2.47
29	2.322	2.387	2.459	2.461	2.529	2.611	2.656	2.699	2.755	2.827	2.977	3.157	3.358	2.344	3.36
30	3.834	3.873	3.946	3.942	3.988	4.041	4.078	4.119	4.152	4.197	4.312	4.474	4.671	3.818	4.6[illegible]
31	3.349	3.394	3.449	3.451	3.500	3.560	3.585	3.615	3.652	3.693	3.808	3.989	4.211	3.306	4.17

SUCHSBALKEN SETMQ 1 GEPRUEFT AM 19. 5. 1978

MITTELTE STAHLDEHNUNGEN IN PROMILLE IM SCHNITT 5

BELASTUNGSGRAD M/MU

SSTELLE	0.857	0.857	0.857	0.857	0.857	0.686	0.571	0.400	0.400	0.400	0.100	0.000	0.429	0.857	0.85
	2	3	4	5	6	1	1	1	2	3		3		7	
22	1.749	1.755	1.773	1.796	1.829	1.771	1.742	1.712	1.720	1.724	1.722	1.749	1.732	1.864	1.88
23	2.447	2.447	2.460	2.476	2.509	2.431	2.396	2.362	2.370	2.370	2.372	2.337	2.314	2.462	2.48
28	2.425	2.359	2.266	2.205	2.299	2.133	2.018	1.864	1.864	1.862	1.641	1.450	1.706	2.314	2.23
29	3.457	3.551	3.671	3.763	3.938	3.525	3.280	3.018	3.013	3.013	2.738	2.545	2.814	3.533	3.75
30	4.626	4.581	4.569	4.583	4.712	4.474	4.316	4.135	4.135	4.129	3.922	3.766	3.959	4.632	4.5
31	4.277	4.349	4.488	4.574	4.644	4.234	4.016	3.792	3.790	3.790	3.562	3.404	3.607	4.277	4.4

VERSUCHSBALKEN SETMQ1 GEPRUEFT AM 19. 5. 1978

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ERMITTELTE STAHLDEHNUNGEN IN PROMILLE IM SCHNITT 5*

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BELASTUNGSGRAD M/MU

MESSTELLE	0.857	0.857	0.857	0.857	0.857	0.857	0.857	0.857	0.943	1.000
	9	10	11	12	13	14	15	16		
22	1.911	1.948	2.005	2.083	2.180	2.248	2.336	2.400	2.648	2.112
23	2.509	2.552	2.653	2.778	2.899	2.989	3.092	3.191	3.525	3.166
28	2.242	2.377	2.535	2.679	2.833	2.899	2.991	3.229	3.683	2.482
29	3.919	4.081	4.293	4.580	5.237	6.100	6.968	8.161		
30	4.649	4.755	4.850	5.029	5.273	5.464	5.624	5.784	6.435	5.571
31	4.632	4.792	4.907	5.100	5.394	5.669	5.893	6.125	7.244	8.250

SUCHSBALKEN SETM01 GEPRUEFT AM 19. 5. 1978

MITTELTE STAHLDEHNUNGEN IN PROMILLE IM SCHNITT 7

BELASTUNGSGRAD M/MU

SSTELLE	0.000	0.114	0.229	0.229	0.343	0.457	0.514	0.571	0.629	0.686	0.743	0.800	0.857	0.000	0.85
				1										1	1
1	-1.037	-0.152	-0.138	-0.130	-0.140	-0.095	-0.079	-0.113	-0.037	-0.070	-0.042	-0.009	0.012	-0.138	-0.02
2	-0.117	-0.103	-0.083	-0.083	-0.072	-0.058	-0.050	-0.044	-0.037	-0.027	-0.017	-0.005	0.012	-0.091	0.00
3	-0.064	-0.056	-0.019	-0.040	-0.032	-0.017	-0.011	-0.003	0.007	0.018	0.030	0.044	0.063	-0.013	0.05
4	-0.094	-0.088	-0.072	-0.072	-0.066	-0.049	-0.041	-0.035	-0.027	-0.016	-0.008	0.002	0.014	-0.043	0.00
7	-0.099	-0.101	-0.093	-0.083	-0.071	-0.081	-0.058	-0.056	-0.050	-0.056	-0.040	-0.046	-0.019	-0.038	-0.04
8	-0.111	-0.095	-0.097	-0.056	-0.075	-0.093	-0.036	-0.060	-0.105	-0.068	-0.070	-0.083	-0.048	0.026	0.01
9	-0.051	-0.065	-0.063	-0.063	-0.074	-0.080	-0.084	-0.092	-0.092	-0.096	-0.098	-0.100	-0.092	-0.029	-0.03
11	-0.060	-0.052	-0.046	-0.044	-0.040	-0.032	-0.026	-0.024	-0.019	-0.019	-0.024	-0.030	-0.036	-0.026	-0.03
12	-0.088	-0.082	-0.070	-0.072	-0.070	-0.060	-0.056	-0.054	-0.052	-0.049	-0.056	-0.064	-0.070	-0.054	-0.03
13	0.033	0.031	0.033	0.031	0.025	0.023	0.023	0.019	0.017	0.019	0.025	0.019	0.019	0.076	0.05
14	-0.031	-0.045	-0.037	-0.035	-0.041	-0.047	-0.047	-0.052	-0.054	-0.062	-0.076	-0.086	-0.066	-0.003	-0.07
15	-0.060	-0.068	-0.068	-0.064	-0.074	-0.083	-0.081	-0.085	-0.089	-0.089	-0.087	-0.083	-0.085	-0.036	-0.09
16	-0.251	-0.341	-0.444	-0.456	-0.563	-0.688	-0.760	-0.824	-0.896	-0.986	-1.074	-1.202	-1.345	-0.520	-1.43
19	-0.253	-0.354	-0.460	-0.471	-0.584	-0.711	-0.787	-0.855	-0.931	-1.025	-1.113	-1.241	-1.382	-0.508	-1.45
22	1.873	1.844	1.844	1.801	1.795	1.760	1.772	1.758	1.754	1.737	1.764	1.766	1.797	1.610	1.67
24	-0.754	-0.685	-0.600	-0.598	-0.518	-0.424	-0.371	-0.321	-0.266	-0.200	-0.124	-0.009	0.334	-0.697	0.37
27	-0.583	-0.489	-0.409	-0.362	-0.282	-0.191	-0.138	-0.091	-0.027	0.028	0.113	0.293	0.624	-0.495	0.53
28	2.310	2.371	2.437	2.449	2.515	2.583	2.634	2.673	2.718	2.765	2.843	2.936	3.119	2.349	3.12
29	2.283	2.342	2.408	2.412	2.476	2.554	2.597	2.636	2.683	2.732	2.792	2.896	3.085	2.311	3.09
30	3.860	3.911	3.974	3.966	4.014	4.075	4.108	4.139	4.176	4.221	4.272	4.348	4.463	3.944	4.51
31	3.721	3.770	3.819	3.821	3.868	3.926	3.959	3.987	4.026	4.068	4.117	4.174	4.334	3.725	4.33

UCHSBALKEN SETMQ1 GEPRUEFT AM 19. 5. 1978
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ITTELTE STAHLDEHNUNGEN IN PROMILLE IM SCHNITT 7
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BELASTUNGSGRAD M/MU

STELLE	0.857 2	0.857 3	0.857 4	0.857 5	0.857 6	0.686 1	0.571 1	0.400 1	0.400 2	0.400 3	0.100	0.000 3	0.429	0.857 7	0.85
1	-0.015	-0.009	-0.009	-0.035	-0.064	-0.101	-0.054	-0.077	0.010	0.008	-0.021	-0.185	-0.161	-0.085	-0.08
2	0.010	0.008	0.008	0.008	0.000	-0.017	-0.025	-0.037	-0.033	-0.033	-0.058	-0.095	-0.052	0.002	0.00
3	0.065	0.063	0.067	0.069	0.069	0.050	0.044	0.030	0.034	0.034	0.018	-0.003	0.020	0.073	0.07
4	0.014	0.014	0.027	0.037	0.043	0.025	0.018	0.008	0.012	0.014	0.008	-0.025	-0.008	0.033	0.03
7	-0.044	-0.052	-0.048	-0.052	-0.058	-0.067	-0.063	-0.065	-0.048	-0.050	-0.036	-0.036	-0.067	-0.050	-0.05
8	0.018	-0.001	-0.013	-0.011	0.014	0.014	0.038	0.040	0.026	0.024	0.024	-0.042	-0.066	-0.040	-0.02
9	-0.088	-0.088	-0.053	-0.045	-0.025	-0.043	-0.049	-0.039	-0.033	-0.031	0.002	-0.021	-0.065	-0.065	-0.04
11	-0.044	-0.042	-0.017	0.075	0.321	0.330	0.291	0.266	0.278	0.291	0.280	0.143	0.155	0.147	0.25
12	-0.084	-0.086	-0.086	-0.084	-0.080	-0.064	-0.056	-0.047	-0.039	-0.037	-0.033	-0.058	-0.052	-0.082	-0.09
13	0.057	0.053	0.059	0.076	0.117	0.141	0.150	0.160	0.166	0.168	0.197	0.164	0.135	0.104	0.12
14	-0.068	-0.066	-0.062	-0.054	-0.041	-0.037	-0.033	-0.023	-0.015	-0.013	0.016	-0.007	-0.039	-0.052	-0.07
15	-0.093	-0.091	-0.089	-0.081	-0.070	-0.070	-0.058	-0.048	-0.038	-0.036	-0.003	-0.021	-0.062	-0.085	-0.07
16	-1.495	-1.510	-1.555	-1.573	-1.619	-1.485	-1.368	-1.191	-1.179	-1.177	-0.865	-0.719	-1.128	-1.629	-1.65
19	-1.512	-1.526	-1.579	-1.596	-1.623	-1.489	-1.368	-1.189	-1.177	-1.177	-0.855	-0.672	-1.101	-1.621	-1.64
22	1.664	1.666	1.682	1.684	1.709	1.641	1.614	1.586	1.592	1.596	1.586	1.514	1.491	1.622	1.63
24	0.414	0.416	0.428	0.416	0.367	0.079	-0.108	-0.319	-0.323	-0.325	-0.578	-0.724	-0.422	0.354	0.35
27	0.560	0.562	0.599	0.599	0.607	0.271	0.065	-0.169	-0.177	-0.173	-0.446	-0.599	-0.356	0.484	0.50
28	3.155	3.168	3.182	3.184	3.254	3.053	2.909	2.730	2.730	2.720	2.509	2.390	2.634	3.188	3.22
29	3.126	3.151	3.155	3.165	3.188	2.979	2.843	2.675	2.671	2.669	2.449	2.305	2.558	3.118	3.14
30	4.535	4.541	4.572	4.586	4.675	4.521	4.416	4.278	4.274	4.272	4.110	3.993	4.178	4.623	4.65
31	4.353	4.359	4.382	4.396	4.415	4.240	4.129	3.992	3.992	3.994	3.835	3.713	3.899	4.357	4.38

VERSUCHSBALKEN SETM01 GEPRUEFT AM 19. 5. 1978

ERMITTELTE STAHLDEHNUNGEN IN PROMILLE IM SCHNITT 7

BELASTUNGSGRAD M/MU

MESSTELLE	0.857	0.857	0.857	0.857	0.857	0.857	0.857	0.857	0.943	1.000
	9	10	11	12	13	14	15	16		
1	-0.058	-0.079	-0.025	-0.054	-0.015	0.041	0.125	0.223	0.346	0.874
2	0.006	-0.005	-0.017	-0.019	0.162	0.322	0.468	0.626	0.944	2.595
3	0.083	0.085	0.092	0.116	0.227	0.287	0.352	0.404	0.459	1.751
4	0.060	0.068	0.092	0.166	0.368	0.528	0.671	0.809	1.150	1.070
7	-0.036	-0.050	-0.058	-0.009	0.167	0.254	0.373	0.494	0.547	0.529
8	-0.023	0.238	0.523	0.893	0.989	1.032	1.153	1.137	1.184	0.685
9	-0.033	0.012	0.612	0.951	1.215	1.400	1.532	1.640	1.807	0.903
11	0.360	0.488	0.683	0.942	1.297	1.537	1.771	1.974	2.441	2.664
12	-0.070	0.020	0.523	0.858	1.154	1.326	1.460	1.546	1.661	1.024
13	0.145	0.225	0.345	0.488	0.815	1.016	1.189	1.320	1.466	0.975
14	-0.023	-0.011	0.057	0.229	0.572	0.800	0.936	1.038	1.157	0.574
15	-0.060	-0.056	-0.013	0.096	0.330	0.535	0.697	0.880	1.104	0.668
16	-1.668	-1.686	-1.697	-1.727	-1.803	-1.910	-1.916	-1.941	-2.185	-3.035
19	-1.660	-1.738	-1.834	-1.968	-2.226	-2.440	-2.534	-2.688	-3.565	
22	1.653	1.709	1.748	1.818	1.907	1.965	2.033	2.086	2.201	2.127
24	0.336	0.412	0.621	0.839	0.974	1.089	1.149	1.209	1.478	1.671
27	0.499	0.562	0.669	0.780	1.000	1.242	1.349	1.464	1.805	3.162
28	3.256	3.328	3.470	3.632	3.852	4.012	4.110	4.184	4.433	4.466
29	3.161	3.217	3.441	3.615	3.839	3.999	4.087	4.145	4.356	4.638
30	4.677	4.759	4.896	5.053	5.285	5.445	5.558	5.689	6.161	6.285
31	4.402	4.466	4.671	4.870	5.127	5.334	5.488	5.638	6.053	7.562

SUCHSBALKEN SETMQ1 GEPRUEFT AM 19. 5. 1978

MITTELTE STAHLDEHNUNGEN IN PROMILLE IM SCHNITT 7"

BELASTUNGSGRAD M/MU

SSTELLE	0.000	0.114	0.229	0.229 (1)	0.343	0.457	0.514	0.571	0.629	0.686	0.743	0.800	0.857	0.000 (1)	0.85 (1)
23	1.255	1.253	1.243	1.241	1.230	1.218	1.210	1.206	1.200	1.193	1.206	1.224	1.269	1.173	1.25
28	2.320	2.381	2.447	2.449	2.513	2.593	2.636	2.677	2.732	2.827	2.962	3.118	3.278	2.326	3.27
29	3.035	3.100	3.164	3.166	3.232	3.308	3.345	3.388	3.441	3.525	3.673	3.831	4.045	3.061	4.19
30	3.433	3.496	3.545	3.554	3.628	3.687	3.724	3.759	3.798	3.866	4.007	4.176	4.359	3.504	4.42
31	3.821	3.862	3.909	3.911	3.954	4.009	4.040	4.069	4.106	4.159	4.295	4.453	4.642	3.782	4.64

RSUCHSBALKEN SETMQ1 GEPRUEFT AM 19. 5. 1978

RMITTELTE STAHLDEHNUNGEN IN PROMILLE IM SCHNITT 7*

BELASTUNGSGRAD M/MU

ESSTELLE	0.857	0.857	0.857	0.857	0.857	0.686	0.571	0.400	0.400	0.400	0.100	0.000	0.429	0.857	0.8
	2	3	4	5	6	1	1	1	2	3		3		7	
23	1.249	1.251	1.255	1.265	1.281	1.214	1.177	1.146	1.146	1.146	1.152	1.132	1.080	1.216	1.2
28	3.248	3.196	3.157	3.137	3.139	2.925	2.792	2.621	2.613	2.611	2.381	2.207	2.478	3.205	3.1
29	4.355	4.445	4.634	4.735	4.831	4.382	4.067	3.747	3.739	3.739	3.462	3.343	3.620	4.656	4.8
30	4.430	4.416	4.445	4.461	4.492	4.237	4.085	3.917	3.923	3.927	3.743	3.607	3.837	4.578	4.5
31	4.703	4.736	4.790	4.825	4.870	4.570	4.381	4.178	4.174	4.172	3.983	3.849	4.028	4.683	4.7

VERSUCHSBALKEN SETMQ1 GEPRUEFT AM 19. 5. 1978

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ERMITTELTE STAHLDEHNUNGEN IN PROMILLE IM SCHNITT 7*

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BELASTUNGSGRAD M/MU

MESSTELLE	0.857	0.857	0.857	0.857	0.857	0.857	0.857	0.857	0.943	1.000
	9	10	11	12	13	14	15	16		
23	1.237	1.267	1.330	1.417	1.534	1.610	1.684	1.735	1.971	2.113
28	3.071	3.190	3.437	3.523	3.632	3.681	3.658	3.568	3.104	2.504
29	5.020	5.242	5.521	5.862	6.591	7.862	9.076	10.084		
30	4.543	4.658	4.794	5.135	5.500	5.788	6.001	6.258	7.400	3.433
31	4.839	4.917	5.003	5.202	5.537	5.784	5.956	6.141	6.979	8.701

RSUCHSBALKEN SETMQ1 GEPRUEFT AM 19. 5. 1978

RMITTELTE STAHLDEHNUNGEN IN PROMILLE IM SCHNITT 8

BELASTUNGSGRAD M/MU

ESSTELLE	0.000	0.114	0.229	0.229	0.343	0.457	0.514	0.571	0.629	0.686	0.743	0.800	0.857	0.000	0.85
				1										1	1
1	-0.049	-0.039	-0.027	-0.025	-0.015	0.004	0.012	0.022	0.035	0.047	0.063	0.084	0.107	0.006	0.11
3	-0.068	-0.052	-0.040	-0.038	-0.032	-0.017	-0.009	-0.001	0.005	0.020	0.030	0.046	0.063	-0.013	0.06
4	-0.045	-0.031	-0.021	-0.017	-0.009	-0.004	0.004	0.008	0.012	0.024	0.030	0.041	0.055	0.008	0.06
7	-0.057	-0.041	-0.025	-0.021	-0.010	0.008	0.016	0.027	0.037	0.053	0.064	0.078	0.092	0.010	0.09
9	-0.029	-0.035	-0.043	-0.043	-0.056	-0.066	-0.072	-0.080	-0.089	-0.086	-0.084	-0.047	-0.023	-0.005	-0.01
11	-0.039	-0.035	-0.029	-0.027	-0.025	-0.019	-0.015	-0.013	-0.013	-0.011	-0.017	-0.017	-0.005	-0.011	-0.00
12	-0.031	-0.025	-0.019	-0.017	-0.015	-0.007	-0.003	-0.001	-0.001	0.003	-0.001	-0.001	0.003	0.001	0.00
13	0.006	0.002	-0.002	0.000	-0.008	-0.010	-0.010	-0.012	-0.010	0.004	0.008	0.045	0.057	0.045	0.05
14	0.010	0.008	0.004	0.004	-0.004	-0.011	-0.013	-0.017	-0.023	-0.019	-0.008	0.022	0.036	0.044	0.04
15	-0.012	-0.020	-0.028	-0.026	-0.041	-0.053	-0.055	-0.061	-0.074	-0.082	-0.082	-0.100	-0.160	-0.004	-0.17
16	-0.146	-0.228	-0.325	-0.335	-0.436	-0.557	-0.624	-0.686	-0.756	-0.838	-0.920	-1.039	-1.160	-0.392	-1.23
19	-0.152	-0.232	-0.333	-0.341	-0.446	-0.573	-0.647	-0.713	-0.786	-0.877	-0.963	-1.095	-1.232	-0.419	-1.31
22	0.842	0.840	0.834	0.830	0.819	0.807	0.797	0.793	0.787	0.789	0.797	0.805	0.834	0.772	0.81
23	0.341	0.341	0.333	0.329	0.316	0.304	0.294	0.290	0.284	0.281	0.290	0.298	0.327	0.251	0.30
24	-0.789	-0.714	-0.629	-0.627	-0.545	-0.449	-0.395	-0.344	-0.284	-0.200	-0.130	0.085	0.408	-0.746	0.43
27	-0.770	-0.692	-0.610	-0.606	-0.526	-0.430	-0.378	-0.327	-0.272	-0.193	-0.109	0.205	0.505	-0.734	0.51
30	4.064	4.109	4.156	4.158	4.205	4.261	4.291	4.322	4.357	4.404	4.454	4.534	4.716	4.064	4.73

RSUCHSBALKEN SETMQ1 GEPRUEFT AM 19. 5. 1978

RMITTELTE STAHLDEHNUNGEN IN PROMILLE IM SCHNITT 8

BELASTUNGSGRAD M/MU

ESSTELLE	0.857	0.857	0.857	0.857	0.857	0.686	0.571	0.400	0.400	0.400	0.100	0.000	0.429	0.857	0.85
	2	3	4	5	6	1	1	1	2	3		3		7	8
1	0.117	0.117	0.119	0.119	0.117	0.096	0.086	0.068	0.070	0.068	0.039	0.016	0.053	0.123	0.12
3	0.086	0.075	0.081	0.081	0.079	0.061	0.051	0.032	0.036	0.034	0.014	-0.003	0.024	0.083	0.09
4	0.069	0.067	0.053	0.053	0.049	0.041	0.037	0.026	0.030	0.030	0.022	0.008	0.024	0.059	0.06
7	0.103	0.107	0.115	0.121	0.129	0.113	0.105	0.086	0.092	0.094	0.068	0.031	0.066	0.115	0.12
9	0.003	0.032	0.085	0.133	0.258	0.252	0.207	0.139	0.145	0.149	0.141	0.075	0.022	0.051	0.17
11	-0.007	-0.009	-0.015	-0.017	-0.033	-0.025	-0.017	-0.011	-0.007	-0.007	-0.005	-0.013	-0.007	-0.019	-0.02
12	0.003	0.005	0.008	0.018	0.069	0.083	0.090	0.094	0.102	0.112	0.112	0.077	0.083	0.059	0.07
13	0.067	0.075	0.092	0.108	0.112	0.090	0.079	0.075	0.079	0.081	0.092	0.071	0.053	0.088	0.10
14	0.044	0.038	0.046	0.063	0.147	0.147	0.135	0.122	0.129	0.129	0.145	0.127	0.096	0.147	0.15
15	-0.213	-0.265	-0.341	-0.386	-0.297	-0.219	-0.160	-0.094	-0.090	-0.088	-0.026	0.008	-0.041	-0.154	-0.21
16	-1.294	-1.306	-1.347	-1.360	-1.382	-1.253	-1.144	-0.980	-0.967	-0.969	-0.680	-0.548	-0.902	-1.374	-1.40
19	-1.390	-1.403	-1.456	-1.468	-1.489	-1.349	-1.234	-1.060	-1.045	-1.047	-0.735	-0.600	-0.984	-1.491	-1.51
22	0.811	0.813	0.819	0.826	0.850	0.799	0.764	0.737	0.741	0.739	0.750	0.733	0.702	0.813	0.82
23	0.292	0.292	0.298	0.308	0.333	0.281	0.247	0.220	0.222	0.218	0.226	0.193	0.158	0.275	0.28
24	0.473	0.486	0.531	0.549	0.580	0.223	-0.013	-0.280	-0.282	-0.284	-0.582	-0.746	-0.418	0.477	0.52
27	0.538	0.531	0.540	0.540	0.583	0.242	0.012	-0.259	-0.259	-0.261	-0.567	-0.758	-0.438	0.513	0.53
30	4.749	4.751	4.776	4.786	4.825	4.614	4.476	4.322	4.324	4.322	4.154	4.054	4.240	4.778	4.80

VERSUCHSBALKEN SETMQ1 GEPRUEFT AM 19. 5. 1978

ERMITTELTE STAHLDEHNUNGEN IN PROMILLE IM SCHNITT 8

BELASTUNGSGRAD M/MU

MESSTELLE	0.857	0.857	0.857	0.857	0.857	0.857	0.857	0.857	0.943	1.000
	9	10	11	12	13	14	15	16		
1	0.127	0.125	0.131	0.150	0.265	0.341	0.406	0.476	0.642	1.877
3	0.090	0.094	0.094	0.106	0.200	0.262	0.309	0.361	0.467	1.975
4	0.065	0.061	0.061	0.094	0.234	0.330	0.410	0.484	0.564	1.234
7	0.138	0.148	0.158	0.222	0.398	0.493	0.544	0.567	0.653	1.183
9	0.291	0.420	0.492	0.613	0.792	0.899	0.987	1.081	1.396	1.925
11	-0.029	-0.021	0.211	0.579	0.981	1.193	1.357	1.507	1.642	2.002
12	0.102	0.207	0.361	0.550	0.817	0.987	1.116	1.235	1.459	2.882
13	0.120	0.155	0.330	0.615	0.927	1.141	1.307	1.486	1.761	2.110
14	0.188	0.305	0.408	0.533	0.712	0.831	0.925	1.010	1.170	1.578
15	-0.226	0.082	0.669	1.029	1.392	1.620	1.819	2.055	2.232	3.706
16	-1.409	-1.460	-1.522	-1.598	-1.659	-1.727	-1.709	-1.676	-1.715	-3.454
19	-1.524	-1.561	-1.579	-1.624	-1.684	-1.774	-1.805	-1.860	-2.388	-7.162
22	0.842	0.907	1.004	1.129	1.289	1.379	1.453	1.525	1.774	1.677
23	0.298	0.345	0.402	0.453	0.523	0.566	0.607	0.642	0.796	0.550
24	0.560	0.609	0.759	0.909	1.116	1.274	1.369	1.467	1.816	2.991
27	0.556	0.632	0.702	0.763	0.963	1.164	1.281	1.388	1.804	2.160
30	4.819	4.875	5.043	5.265	5.499	5.690	5.825	5.981	6.573	7.854

SUCHSBALKEN SETMQ1 GEPRUEFT AM 19. 5. 1978

MITTELTE STAHLDEHNUNGEN IN PROMILLE IM SCHNITT II

BELASTUNGSGRAD M/MU

SSTELLE	0.000	0.114	0.229	0.229	0.343	0.457	0.514	0.571	0.629	0.686	0.743	0.800	0.857	0.000	0.857
				1										1	1
1	-0.068	-0.054	-0.040	-0.042	-0.032	-0.015	-0.007	0.001	0.010	0.020	0.028	0.038	0.051	-0.027	0.0
2	-0.033	-0.023	-0.015	-0.013	-0.009	0.001	0.006	0.012	0.016	0.026	0.034	0.045	0.055	-0.001	0.057
3	-0.066	-0.052	-0.042	-0.042	-0.034	-0.017	-0.011	-0.003	0.003	0.012	0.020	0.030	0.040	-0.032	0.036
4	-0.057	-0.045	-0.033	-0.033	-0.023	-0.006	0.002	0.008	0.016	0.027	0.033	0.043	0.051	-0.016	0.049
7	-0.053	-0.035	-0.017	-0.017	-0.004	0.014	0.025	0.033	0.043	0.055	0.064	0.076	0.088	0.002	0.084
8	0.035	0.037	0.033	0.033	0.023	0.021	0.017	0.012	0.008	0.006	0.000	-0.004	-0.006	0.057	-0.014
11	-0.025	-0.017	-0.011	-0.009	-0.005	0.007	0.011	0.018	0.024	0.032	0.040	0.053	0.069	0.016	0.073
12	-0.037	-0.029	-0.023	-0.023	-0.017	-0.005	-0.001	0.006	0.012	0.020	0.028	0.043	0.061	0.004	0.065
13	0.006	0.006	0.002	0.002	-0.004	-0.006	-0.010	-0.012	-0.017	-0.019	-0.025	-0.033	-0.035	0.018	-0.037
14	-0.010	-0.004	-0.004	-0.004	-0.006	-0.008	-0.008	-0.010	-0.012	-0.014	-0.016	-0.020	-0.024	0.012	-0.055
15	-0.029	-0.029	-0.033	-0.035	-0.041	-0.050	-0.054	-0.056	-0.062	-0.066	-0.068	-0.070	-0.064	-0.013	-0.076
16	-0.119	-0.174	-0.246	-0.255	-0.328	-0.421	-0.468	-0.511	-0.558	-0.616	-0.663	-0.725	-0.780	-0.225	-0.817
19	-0.101	-0.161	-0.239	-0.245	-0.325	-0.421	-0.473	-0.518	-0.571	-0.631	-0.684	-0.752	-0.814	-0.220	-0.857
22	1.355	1.355	1.349	1.349	1.343	1.330	1.326	1.324	1.318	1.312	1.312	1.308	1.310	1.318	1.287
23	1.279	1.283	1.279	1.277	1.271	1.261	1.256	1.254	1.248	1.242	1.242	1.238	1.242	1.248	1.217
24	-0.708	-0.645	-0.581	-0.579	-0.515	-0.446	-0.407	-0.370	-0.331	-0.288	-0.244	-0.173	-0.103	-0.678	-0.119
27	-0.706	-0.643	-0.579	-0.577	-0.511	-0.442	-0.403	-0.366	-0.329	-0.288	-0.247	-0.197	-0.123	-0.672	-0.156
28	1.591	1.658	1.705	1.712	1.775	1.829	1.870	1.909	1.946	1.972	2.013	2.050	2.106	1.695	2.104
29	2.454	2.503	2.552	2.554	2.603	2.657	2.688	2.716	2.747	2.780	2.813	2.852	2.899	2.480	2.885
30	4.016	4.052	4.087	4.087	4.120	4.159	4.180	4.202	4.223	4.243	4.268	4.293	4.321	4.014	4.303
31	3.234	3.270	3.305	3.303	3.336	3.375	3.394	3.416	3.437	3.457	3.478	3.494	3.521	3.213	3.496

VERSUCHSBALKEN SETMQ1 GEPRUEFT AM 19. 5. 1978

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ERMITTELTE STAHLDEHNUNGEN IN PROMILLE IM SCHNITT II

****

BELASTUNGSGRAD M/MU

MESSTELLE	0.857	0.857	0.857	0.857	0.857	0.857	0.857	0.857	0.943	1.000
	9	10	11	12	13	14	15	16		
1	0.077	0.081	0.088	0.096	0.147	0.180	0.240	0.272	0.305	0.301
2	0.147	0.160	0.176	0.207	0.346	0.431	0.589	0.691	0.734	0.544
3	0.053	0.053	0.063	0.085	0.211	0.278	0.334	0.377	0.398	0.301
4	0.057	0.057	0.049	0.043	0.047	0.051	0.088	0.101	0.107	0.115
7	0.127	0.155	0.213	0.318	0.448	0.491	0.534	0.563	0.599	0.476
8	-0.008	0.061	0.170	0.306	0.494	0.811	0.959	1.071	1.199	0.841
11	0.065	0.050	0.026	0.026	0.077	0.106	0.213	0.248	0.241	0.223
12	0.240	0.291	0.589	0.940	1.090	1.176	1.258	1.312	1.379	0.956
13	-0.043	-0.045	-0.037	-0.006	0.063	0.123	0.188	0.240	0.330	0.258
14	0.501	0.599	0.721	1.088	1.341	1.486	1.581	1.663	1.764	1.236
15	-0.070	-0.054	-0.009	0.445	0.687	0.804	0.888	0.975	1.079	0.806
16	-0.912	-0.951	-0.994	-1.064	-1.172	-1.244	-1.267	-1.304	-1.489	-1.417
19	-0.883	-0.875	-0.865	-0.853	-0.824	-0.824	-0.814	-0.820	-0.906	-0.887
22	1.281	1.289	1.304	1.332	1.375	1.406	1.455	1.459	1.554	1.422
23	1.236	1.252	1.324	1.426	1.494	1.545	1.603	1.642	1.693	1.373
24	-0.074	-0.064	-0.045	-0.017	0.082	0.127	0.279	0.353	0.612	0.232
27	0.059	0.152	0.363	0.450	0.546	0.638	0.694	0.780	0.975	0.439
28	2.059	2.112	2.159	2.252	2.371	2.434	2.471	2.508	2.603	2.217
29	2.944	2.979	3.035	3.150	3.308	3.404	3.464	3.509	3.622	3.143
30	4.342	4.373	4.426	4.467	4.533	4.588	4.644	4.685	4.839	4.603
31	3.671	3.714	3.774	3.979	4.223	4.383	4.488	4.572	4.759	4.049

SUCHSBALKEN SETMQ1 GEPRUEFT AM 19. 5. 1978

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MITTELTE STAHLDEHNUNGEN IN PROMILLE IM SCHNITT II

****

BELASTUNGSGRAD M/MU

SSTELLE	0.857	0.857	0.857	0.857	0.857	0.686	0.571	0.400	0.400	0.400	0.100	0.000	0.429	0.857	0.857
	2	3	4	5	6	1	1	1	2	3		3		7	8
1	0.053	0.055	0.061	0.063	0.067	0.055	0.049	0.032	0.034	0.034	0.014	-0.019	0.010	0.063	0.07
2	0.059	0.059	0.069	0.071	0.077	0.073	0.069	0.061	0.063	0.065	0.071	0.061	0.090	0.135	0.14
3	0.036	0.038	0.042	0.044	0.046	0.032	0.028	0.014	0.016	0.016	-0.003	-0.025	0.001	0.046	0.05
4	0.051	0.051	0.051	0.051	0.049	0.041	0.035	0.023	0.023	0.021	0.000	-0.018	0.008	0.051	0.06
7	-0.084	0.086	0.094	0.101	0.109	0.101	0.094	0.082	0.084	0.086	0.061	0.022	0.064	0.113	0.12
8	-0.020	-0.020	-0.020	-0.022	-0.020	-0.006	0.004	0.021	0.027	0.023	0.051	0.045	0.012	-0.014	-0.01
11	0.071	0.067	0.063	0.057	0.048	0.046	0.046	0.040	0.038	0.034	0.022	0.014	0.042	0.081	0.07
12	0.077	0.102	0.160	0.186	0.225	0.221	0.213	0.195	0.201	0.209	0.180	0.075	0.114	0.182	0.20
13	-0.041	-0.043	-0.047	-0.051	-0.058	-0.037	-0.021	-0.004	-0.002	-0.004	0.014	0.012	-0.008	-0.037	-0.03
14	-0.022	-0.006	0.115	0.279	0.445	0.417	0.378	0.324	0.337	0.355	0.308	0.193	0.195	0.339	0.41
15	-0.072	-0.076	-0.084	-0.086	-0.089	-0.078	-0.068	-0.054	-0.052	-0.052	-0.023	-0.021	-0.056	-0.072	-0.07
16	-0.844	-0.852	-0.881	-0.891	-0.910	-0.815	-0.739	-0.620	-0.612	-0.612	-0.390	-0.298	-0.581	-0.889	-0.90
19	-0.883	-0.885	-0.908	-0.902	-0.894	-0.793	-0.715	-0.594	-0.586	-0.584	-0.349	-0.265	-0.565	-0.894	-0.88
22	1.283	1.281	1.277	1.277	1.277	1.269	1.269	1.269	1.273	1.271	1.304	1.293	1.271	1.277	1.27
23	1.215	1.217	1.222	1.230	1.238	1.230	1.228	1.224	1.228	1.232	1.244	1.207	1.189	1.213	1.22
24	-0.099	-0.099	-0.084	-0.080	-0.070	-0.177	-0.263	-0.388	-0.390	-0.394	-0.573	-0.684	-0.446	-0.095	-0.08
27	-0.113	-0.105	-0.084	-0.041	0.043	-0.086	-0.191	-0.335	-0.337	-0.335	-0.534	-0.672	-0.435	-0.019	0.01
28	2.104	2.120	2.143	2.170	2.213	2.112	2.069	1.979	1.979	2.009	1.851	1.638	1.804	2.018	2.03
29	2.897	2.897	2.918	2.930	2.959	2.854	2.784	2.688	2.686	2.683	2.540	2.448	2.628	2.913	2.93
30	4.313	4.315	4.332	4.338	4.350	4.284	4.241	4.176	4.180	4.178	4.083	4.002	4.128	4.309	4.32
31	3.505	3.507	3.546	3.570	3.601	3.513	3.449	3.365	3.357	3.357	3.234	3.174	3.353	3.591	3.63

SUCHSBALKEN SETMQ1 GEPRUEFT AM 19. 5. 1978
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MITTELTE STAHLDEHNUNGEN IN PROMILLE IM SCHNITT II*
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BELASTUNGSGRAD M/MU

SSTELLE	0.000	0.114	0.229	0.229 (1)	0.343	0.457	0.514	0.571	0.629	0.686	0.743	0.800	0.857	0.000 (1)	0.85 (1)
23	0.285	0.391	0.406	0.317	0.149	0.377	0.397	0.404	0.393	0.367	0.363	0.358	0.358	0.162	0,30
28	2.407	2.454	2.501	2.505	2.548	2.604	2.632	2.661	2.690	2.725	2.756	2.790	2.836	2.413	2.81
30	1.799	1.799	1.799	1.799	1.799	1.799	1.799	1.799	1.799	1.799	1.799	1.799	1.799	1.799	1.79

SUCHSBALKEN SETMQ1 GEPRUEFT AM 19. 5. 1978
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MITTELTE STAHLDEHNUNGEN IN PROMILLE IM SCHNITT 11*
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BELASTUNGSGRAD M/MU

SSTELLE	0.857	0.857	0.857	0.857	0.857	0.686	0.571	0.400	0.400	0.400	0.100	0.000	0.429	0.857	0.85
	2	3	4	5	6	1	1	1	2	3		3		7	8
23	0.467	0.478	0.443	0.238	0.441	0.451	0.506	0.504	0.313	0.525	0.531	0.716	0.712	0.728	0.73
28	2.825	2.827	2.848	2.858	2.881	2.790	2.733	2.647	2.643	2.641	2.505	2.407	2.587	2.654	2.66
30	1.799	1.799	1.799	1.799	1.799	1.799	1.799	1.799	1.799	1.799	1.799	1.799	1.799	1.799	1.79

VERSUCHSBALKEN SETMQ GEPRUEFT AM 19. 5. 1978

ERMITTELTE STAHLDEHNUNGEN IN PROMILLE IM SCHNITT 11*

BELASTUNGSGRAD M/MU

MESSTELLE	0.857	0.857	0.857	0.857	0.857	0.857	0.857	0.857	0.943	1.000
	9	10	11	12	13	14	15	16		
23	0.749	0.765	0.859	0.976	1.038	1.081	1.170	1.215	1.268	0.927
28	2.873	2.922	2.963	3.096	3.224	3.304	3.353	3.386	3.482	3.059
30	1.799	1.799	1.799	1.799	1.799	1.799	1.799	1.799	1.799	1.799

UCHSBALKEN SETMQ1 GEPRUEFT AM 19. 5. 1978

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ITTELTE STAHLDEHNUNGEN IN PROMILLE IM SCHNITT 13

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BELASTUNGSGRAD M/MU

STELLE	0.000	0.114	0.229	0.229 (1)	0.343	0.457	0.514	0.571	0.629	0.686	0.743	0.800	0.857	0.000 (1)	0.857 (1)
1	-0.045	-0.033	-0.023	-0.021	-0.015	-0.002	0.002	0.006	0.008	0.012	0.014	0.018	0.022	-0.021	0.016
2	-0.060	-0.050	-0.042	-0.040	-0.036	-0.026	-0.021	-0.019	-0.015	-0.011	-0.009	-0.007	-0.003	-0.046	-0.011
3	-0.062	-0.048	-0.042	-0.038	-0.036	-0.028	-0.021	-0.019	-0.015	-0.013	-0.011	-0.007	-0.005	-0.040	-0.013
4	-0.031	-0.021	-0.015	-0.013	-0.009	0.001	0.005	0.008	0.010	0.014	0.016	0.020	0.024	-0.005	0.020
7	-0.057	-0.045	-0.039	-0.035	-0.033	-0.023	-0.018	-0.014	-0.010	-0.006	-0.004	0.000	0.000	-0.033	-0.004
8	0.004	0.008	0.006	0.008	0.004	0.004	0.004	0.004	0.002	0.002	0.000	-0.002	-0.002	0.016	-0.008
9	0.025	0.027	0.027	0.029	0.025	0.027	0.027	0.027	0.025	0.025	0.023	0.021	0.021	0.043	0.015
11	0.025	0.033	0.037	0.039	0.039	0.047	0.051	0.053	0.055	0.059	0.061	0.068	0.082	0.059	0.096
12	-0.047	-0.039	-0.035	-0.033	-0.033	-0.025	-0.021	-0.017	-0.013	-0.011	-0.004	0.002	0.006	-0.019	0.006
13	0.004	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.018	0.002
14	-0.004	0.002	0.002	0.004	0.000	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.006	0.010	0.004
15	0.339	0.347	0.345	0.343	0.337	0.335	0.333	0.333	0.331	0.327	0.325	0.323	0.323	0.351	0.497
16	-0.107	-0.140	-0.183	-0.185	-0.234	-0.286	-0.312	-0.339	-0.368	-0.399	-0.425	-0.456	-0.485	-0.158	-0.497
19	-0.115	-0.148	-0.191	-0.193	-0.240	-0.287	-0.314	-0.339	-0.366	-0.396	-0.421	-0.452	-0.478	-0.164	-0.493
22	4.842	4.854	4.824	4.889	4.903	4.887	4.887	4.895	4.885	4.856	4.842	4.830	4.803	5.014	5.000
23	1.314	1.320	1.318	1.320	1.314	1.312	1.312	1.310	1.308	1.306	1.304	1.300	1.300	1.306	1.263
24	-0.768	-0.729	-0.695	-0.693	-0.658	-0.619	-0.596	-0.578	-0.559	-0.536	-0.518	-0.497	-0.475	-0.756	-0.491
27	-0.772	-0.731	-0.697	-0.694	-0.662	-0.621	-0.600	-0.582	-0.561	-0.540	-0.522	-0.499	-0.479	-0.758	-0.489
28	2.368	2.323	2.347	2.341	2.362	2.388	2.409	2.421	2.435	2.456	2.470	2.476	2.493	2.288	2.464
29	2.421	2.370	2.392	2.384	2.405	2.431	2.451	2.464	2.476	2.496	2.509	2.515	2.531	2.341	2.511
30	4.507	4.458	4.472	4.468	4.484	4.503	4.525	4.537	4.543	4.554	4.564	4.558	4.566	4.452	4.572
31	3.700	3.645	3.663	3.653	3.669	3.688	3.704	3.714	3.722	3.739	3.747	3.747	3.759	3.612	3.736

UCHSBALKEN SETM01 GEPRUEFT AM 19. 5. 1978

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ITTELTE STAHLDEHNUNGEN IN PROMILLE IM SCHNITT 13

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BELASTUNGSGRAD M/MU

SSTELLE	0.857	0.857	0.857	0.857	0.857	0.686	0.571	0.400	0.400	0.400	0.100	0.000	0.429	0.857	0.857
	2	3	4	5	6	1	1	1	2	3		3		7	8
1	0.016	0.016	0.018	0.018	0.018	0.014	0.010	0.006	0.012	0.012	0.004	-0.025	0.000	0.012	0.018
2	-0.011	-0.013	-0.011	-0.011	-0.013	-0.017	-0.021	-0.026	-0.019	-0.017	-0.024	-0.046	-0.028	-0.013	-0.009
3	-0.015	-0.017	-0.015	-0.013	-0.013	-0.017	-0.023	-0.028	-0.023	-0.023	-0.034	-0.042	-0.030	-0.015	-0.011
4	0.018	0.018	0.016	0.012	0.008	0.008	0.005	0.001	0.005	0.005	-0.003	-0.011	0.001	0.010	0.012
7	-0.004	-0.004	0.004	0.012	0.025	0.025	0.018	0.014	0.018	0.018	0.006	-0.014	0.002	0.018	0.027
8	-0.010	-0.010	-0.008	-0.006	-0.006	0.000	0.002	0.010	0.012	0.012	0.020	0.014	0.002	-0.010	-0.006
9	0.013	0.013	0.017	0.031	0.043	0.053	0.055	0.061	0.068	0.070	0.080	0.133	0.051	0.045	0.051
11	0.096	0.094	0.098	0.094	0.088	0.084	0.080	0.076	0.080	0.078	0.096	0.082	0.098	0.125	0.127
12	0.016	0.039	0.100	0.156	0.207	0.207	0.195	0.176	0.187	0.195	0.166	0.065	0.100	0.166	0.199
13	0.002	0.002	0.004	0.006	0.006	0.010	0.012	0.016	0.020	0.022	0.032	0.016	0.010	0.004	0.010
14	0.004	0.014	0.090	0.223	0.312	0.312	0.295	0.269	0.279	0.293	0.254	0.133	0.158	0.256	0.299
15	0.501	0.501	0.451	0.460	0.468	0.488	0.488	0.495	0.495	0.665	0.714	0.474	0.801	0.788	0.794
16	-0.514	-0.518	-0.532	-0.538	-0.551	-0.497	-0.454	-0.386	-0.380	-0.382	-0.255	-0.197	-0.366	-0.544	-0.548
19	-0.507	-0.507	-0.505	-0.495	-0.483	-0.427	-0.390	-0.329	-0.320	-0.316	-0.201	-0.185	-0.339	-0.495	-0.489
22	5.045	5.039	5.059	5.059	5.059	5.067	5.084	5.090	5.082	5.076	5.074	5.336	5.394	5.340	5.358
23	1.279	1.277	1.265	1.263	1.259	1.261	1.261	1.265	1.273	1.271	1.283	1.267	1.257	1.240	1.244
24	-0.487	-0.487	-0.483	-0.479	-0.475	-0.520	-0.553	-0.606	-0.602	-0.604	-0.697	-0.762	-0.633	-0.495	-0.485
27	-0.483	-0.481	-0.458	-0.450	-0.444	-0.493	-0.530	-0.590	-0.588	-0.586	-0.684	-0.776	-0.621	-0.464	-0.440
28	2.474	2.476	2.472	2.482	2.487	2.462	2.439	2.402	2.419	2.427	2.380	2.319	2.274	2.372	2.304
29	2.515	2.513	2.501	2.509	2.513	2.482	2.455	2.419	2.425	2.421	2.370	2.335	2.304	2.409	2.335
30	4.587	4.595	4.580	4.591	4.591	4.566	4.566	4.546	4.554	4.562	4.535	4.525	4.478	4.537	4.468
31	3.736	3.741	3.728	3.767	3.794	3.765	3.743	3.704	3.714	3.720	3.669	3.597	3.552	3.655	3.593

VERSUCHSBALKEN SETMQ1 GEPRUEFT AM 19. 5. 1978

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ERMITTELTE STAHLDEHNUNGEN IN PROMILLE IM SCHNITT 13

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BELASTUNGSGRAD M/MU

MESSTELLE	0.857	0.857	0.857	0.857	0.857	0.857	0.857	0.857	0.943	1.000
	9	10	11	12	13	14	15	16		
1	0.020	0.024	0.024	0.045	0.067	0.100	0.174	0.228	0.244	0.187
2	-0.009	-0.005	-0.005	0.182	0.383	0.482	0.582	0.664	0.693	0.436
3	-0.011	-0.011	-0.009	0.151	0.459	0.539	0.642	0.718	0.740	0.375
4	0.010	0.010	0.003	0.003	0.001	0.003	0.016	0.024	0.026	0.034
7	0.035	0.049	0.099	0.257	0.441	0.503	0.581	0.643	0.674	0.425
8	-0.006	-0.004	-0.004	-0.010	0.047	0.106	0.168	0.223	0.250	0.149
9	0.059	0.072	0.115	0.240	0.521	0.753	0.961	1.057	1.113	0.544
11	0.119	0.111	0.092	0.080	0.096	0.109	0.150	0.176	0.181	0.189
12	0.234	0.304	0.454	0.581	1.031	1.152	1.265	1.324	1.359	0.694
13	0.014	0.016	0.014	0.004	0.108	0.231	0.369	0.463	0.494	0.293
14	0.351	0.431	0.575	0.724	0.883	0.956	1.035	1.086	1.117	0.605
15	0.801	0.809	0.837	0.876	1.197	1.310	1.076	1.154	1.213	0.778
16	-0.557	-0.573	-0.600	-0.649	-0.666	-0.686	-0.672	-0.680	-0.746	-0.567
19	-0.481	-0.462	-0.419	-0.359	-0.292	-0.181	-0.083	-0.031	-0.035	-0.214
22	5.330	5.349	5.402	5.363	5.332	5.260	5.279	5.236	5.172	5.158
23	1.246	1.244	1.242	1.271	1.424	1.482	1.550	1.593	1.603	1.240
24	-0.483	-0.471	-0.467	-0.460	-0.463	-0.465	-0.448	-0.450	-0.432	-0.460
27	-0.430	-0.419	-0.405	-0.384	-0.204	-0.070	0.127	0.217	0.318	-0.386
28	2.317	2.325	2.339	2.360	2.419	2.443	2.487	2.503	2.515	2.306
29	2.341	2.335	2.347	2.349	2.449	2.486	2.546	2.572	2.583	2.343
30	4.476	4.472	4.486	4.476	4.642	4.895	5.051	5.098	5.090	4.923
31	3.614	3.626	3.686	3.763	3.841	3.886	3.954	3.977	3.977	3.569

UCHSBALKEN SETMQ1 GEPRUEFT AM 19. 5. 1978

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ITTELTE STAHLDEHNUNGEN IN PROMILLE IM SCHNITT 15

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BELASTUNGSGRAD M/MU

SSTELLE	0.000	0.114	0.229	0.229 (1)	0.343	0.457	0.514	0.571	0.629	0.686	0.743	0.800	0.857	0.000 (1)	0.85 (1)
1	0.053	-0.015	-0.011	-0.019	-0.019	-0.017	-0.007	-0.004	-0.004	0.004	0.004	-0.002	0.000	-0.013	-0.017
2	0.062	-0.006	0.000	-0.010	-0.010	-0.006	0.005	0.007	0.007	0.017	0.015	0.009	0.011	-0.008	-0.004
3	0.158	0.090	0.094	0.078	0.076	0.078	0.088	0.090	0.092	0.098	0.098	0.092	0.094	0.076	0.131
4	0.000	-0.064	-0.057	-0.068	-0.068	-0.064	-0.053	-0.051	-0.049	-0.043	-0.043	-0.045	-0.041	-0.051	-0.049
7	0.014	-0.054	-0.050	-0.058	-0.060	-0.056	-0.046	-0.043	-0.041	-0.035	-0.035	-0.041	-0.039	-0.052	-0.056
8	0.021	0.027	0.029	0.031	0.027	0.029	0.031	0.031	0.031	0.031	0.029	0.029	0.029	0.039	0.021
9	-0.029	0.016	0.014	0.022	0.026	0.022	0.022	0.020	0.030	0.022	0.020	0.024	0.020	0.020	0.026
11	-0.097	-0.065	-0.063	-0.034	-0.024	-0.036	-0.011	-0.007	0.011	0.013	0.026	0.042	0.063	0.007	0.063
12	-0.064	-0.013	-0.025	-0.017	-0.009	-0.003	0.003	0.005	0.026	0.028	0.034	0.063	0.071	0.020	0.092
13	-0.084	-0.050	-0.066	-0.035	-0.029	-0.027	-0.023	-0.025	-0.013	-0.019	-0.019	-0.011	-0.013	-0.055	-0.019
14	-0.080	-0.068	-0.041	-0.035	-0.027	-0.027	-0.023	-0.025	-0.013	-0.029	-0.017	-0.025	-0.009	-0.031	-0.033
15	0.002	0.026	0.018	0.026	0.024	0.016	0.012	0.008	0.014	0.002	-0.002	0.000	-0.006	0.036	0.000
16	-0.199	-0.191	-0.193	-0.193	-0.203	-0.222	-0.215	-0.228	-0.234	-0.238	-0.244	-0.248	-0.250	-0.160	-0.263
19	-0.197	-0.191	-0.195	-0.197	-0.209	-0.228	-0.222	-0.236	-0.242	-0.248	-0.254	-0.259	-0.265	-0.167	-0.277
22	2.411	2.417	2.425	2.425	2.423	2.433	2.435	2.437	2.439	2.439	2.441	2.441	2.445	2.437	2.427
23	2.489	2.491	2.501	2.499	2.499	2.507	2.509	2.509	2.511	2.513	2.513	2.517	2.521	2.497	2.495
24	-0.735	-0.717	-0.699	-0.699	-0.684	-0.666	-0.653	-0.647	-0.639	-0.629	-0.623	-0.612	-0.604	-0.727	-0.616
27	-0.713	-0.697	-0.683	-0.683	-0.670	-0.656	-0.648	-0.642	-0.635	-0.629	-0.623	-0.615	-0.607	-0.707	-0.619
29	2.361	2.373	2.381	2.383	2.387	2.395	2.402	2.406	2.408	2.412	2.416	2.420	2.424	2.369	2.418
30	3.819	3.851	3.835	3.835	3.837	3.843	3.847	3.851	3.853	3.855	3.858	3.862	3.864	3.823	3.845
31	3.832	3.844	3.850	3.848	3.850	3.856	3.860	3.862	3.866	3.868	3.871	3.875	3.877	3.838	3.862

SUCHSBALKEN SETMQ 1 GEPRUEFT AM 19. 5. 1978

MITTELTE STAHLDEHNUNGEN IN PROMILLE IM SCHNITT 15

BELASTUNGSGRAD M/MU

SSTELLE	0.857	0.857	0.857	0.857	0.857	0.686	0.571	0.400	0.400	0.400	0.100	0.000	0.429	0.857	0.85
	2	3	4	5	6	1	1	1	2	3		3		7	8
1	-0.017	-0.017	-0.039	-0.039	-0.039	-0.041	-0.037	-0.035	-0.023	-0.021	-0.002	-0.004	-0.124	-0.122	-0.19
2	-0.004	-0.004	-0.024	-0.020	-0.020	-0.022	-0.020	-0.018	-0.008	-0.004	0.011	0.007	-0.106	-0.100	-0.17
3	0.123	0.127	0.297	0.303	0.303	0.307	0.307	0.305	0.320	0.334	0.295	0.361	0.221	0.225	0.25
4	-0.049	-0.051	-0.076	-0.078	-0.080	-0.082	-0.080	-0.078	-0.068	-0.064	-0.045	-0.041	-0.158	-0.150	-0.22
7	-0.054	-0.050	-0.050	-0.023	0.044	0.055	0.055	0.050	0.061	0.071	0.077	0.040	-0.068	-0.041	-0.09
8	0.021	0.023	0.027	0.031	0.033	0.037	0.039	0.041	0.045	0.045	0.051	0.037	0.031	0.025	0.03
9	0.028	0.014	0.030	0.028	0.016	0.016	0.024	0.018	0.028	0.032	0.051	0.030	0.032	-0.009	0.00
11	0.067	0.069	0.059	0.057	0.044	0.032	0.032	0.013	0.042	0.048	0.063	0.028	0.057	0.067	0.06
12	0.120	0.118	0.188	0.213	0.225	0.200	0.213	0.186	0.184	0.196	0.178	0.077	0.129	0.157	0.20
13	-0.011	-0.019	0.004	0.014	0.008	0.014	-0.004	-0.013	-0.002	0.000	0.012	-0.025	-0.011	-0.029	-0.01
14	-0.025	-0.011	0.012	0.039	0.063	0.067	0.051	0.039	0.065	0.067	0.080	0.020	0.028	0.024	0.03
15	0.006	-0.000	-0.025	-0.021	-0.025	-0.019	0.012	0.014	0.022	0.024	0.051	0.057	0.041	-0.012	0.00
16	-0.263	-0.263	-0.265	-0.273	-0.269	-0.269	-0.234	-0.207	-0.203	-0.203	-0.156	-0.150	-0.205	-0.250	-0.24
19	-0.277	-0.277	-0.269	-0.263	-0.246	-0.228	-0.211	-0.191	-0.179	-0.173	-0.136	-0.154	-0.211	-0.246	-0.24
22	2.429	2.429	2.433	2.433	2.433	2.433	2.437	2.443	2.450	2.450	2.458	2.431	2.423	2.421	2.43
23	2.497	2.501	2.507	2.507	2.509	2.507	2.509	2.511	2.515	2.517	2.517	2.475	2.475	2.481	2.49
24	-0.618	-0.618	-0.623	-0.625	-0.627	-0.645	-0.657	-0.678	-0.676	-0.676	-0.713	-0.741	-0.688	-0.637	-0.63
27	-0.617	-0.615	-0.609	-0.603	-0.596	-0.611	-0.621	-0.640	-0.638	-0.640	-0.672	-0.715	-0.658	-0.609	-0.60
29	2.418	2.418	2.420	2.426	2.428	2.420	2.416	2.404	2.404	2.402	2.383	2.363	2.379	2.410	2.41
30	3.845	3.843	3.843	3.845	3.845	3.839	3.837	3.833	3.839	3.839	3.833	3.803	3.813	3.823	3.82
31	3.864	3.860	3.871	3.873	3.875	3.871	3.864	3.858	3.864	3.864	3.854	3.820	3.834	3.848	3.85

VERSUCHSBALKEN SETMQ1 GEPRUEFT AM 19. 5. 1978

ERMITTELTE STAHLDEHNUNGEN IN PROMILLE IM SCHNITT 15

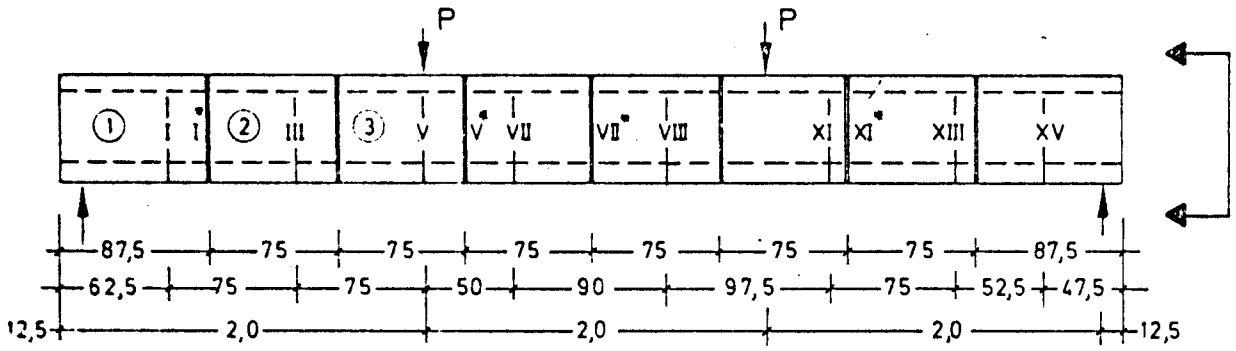
BELASTUNGSGRAD M/MU

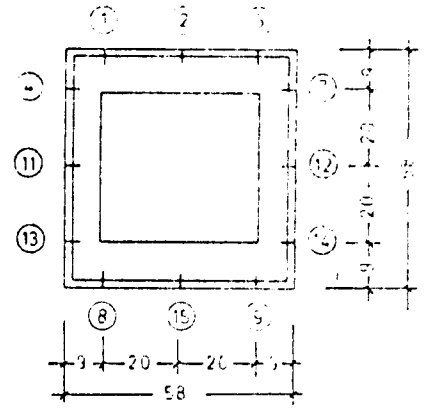
MESSTELLE	0.857	0.857	0.857	0.857	0.857	0.857	0.857	0.857	0.943	1.000
	9	10	11	12	13	14	15	16		
1	-0.191	-0.202	-0.206	-0.230	-0.234	-0.245	-0.220	-0.210	-0.237	-0.214
2	-0.168	-0.178	-0.180	-0.191	0.015	0.172	0.287	0.382	0.372	-0.032
3	0.266	0.258	0.318	0.580	0.732	0.767	0.870	0.905	0.913	0.521
4	-0.228	-0.242	-0.246	-0.267	-0.267	-0.275	-0.253	-0.238	-0.261	-0.228
7	-0.072	-0.017	0.106	0.213	0.297	0.377	0.476	0.541	0.529	0.022
8	0.035	0.039	0.043	0.041	0.041	0.047	0.068	0.084	0.082	0.099
9	0.014	-0.007	0.007	0.081	0.311	0.422	0.537	0.601	0.652	0.675
11	0.083	0.059	0.063	0.046	0.040	0.048	0.079	0.077	0.069	0.116
12	0.225	0.259	0.315	0.467	0.554	0.632	0.699	0.726	0.740	0.736
13	0.006	-0.011	0.004	0.006	0.000	0.016	0.055	0.065	0.065	0.092
14	0.086	0.094	0.174	0.264	0.334	0.359	0.421	0.484	0.511	0.533
15	0.010	-0.006	0.016	0.034	0.061	0.100	0.139	0.188	0.223	0.258
16	-0.248	-0.254	-0.265	-0.252	-0.244	-0.238	-0.201	-0.191	-0.207	-0.163
19	-0.226	-0.207	-0.163	0.082	0.221	0.357	0.511	0.612	0.653	0.207
22	2.435	2.437	2.435	2.435	2.431	2.423	2.458	2.458	2.447	2.460
23	2.503	2.509	2.525	2.587	2.663	2.708	2.780	2.809	2.815	2.624
24	-0.639	-0.637	-0.643	-0.651	-0.666	-0.680	-0.682	-0.694	-0.696	-0.709
27	-0.596	-0.588	-0.572	-0.539	-0.537	-0.537	-0.525	-0.512	-0.508	-0.508
29	2.416	2.418	2.426	2.439	2.455	2.465	2.496	2.508	2.515	2.517
30	3.831	3.833	3.833	3.833	3.835	3.833	3.853	3.855	3.853	3.845
31	3.862	3.875	3.893	3.916	3.983	4.008	4.053	4.084	4.100	3.983

D Dehnungen der Bewehrung (graphische Form)

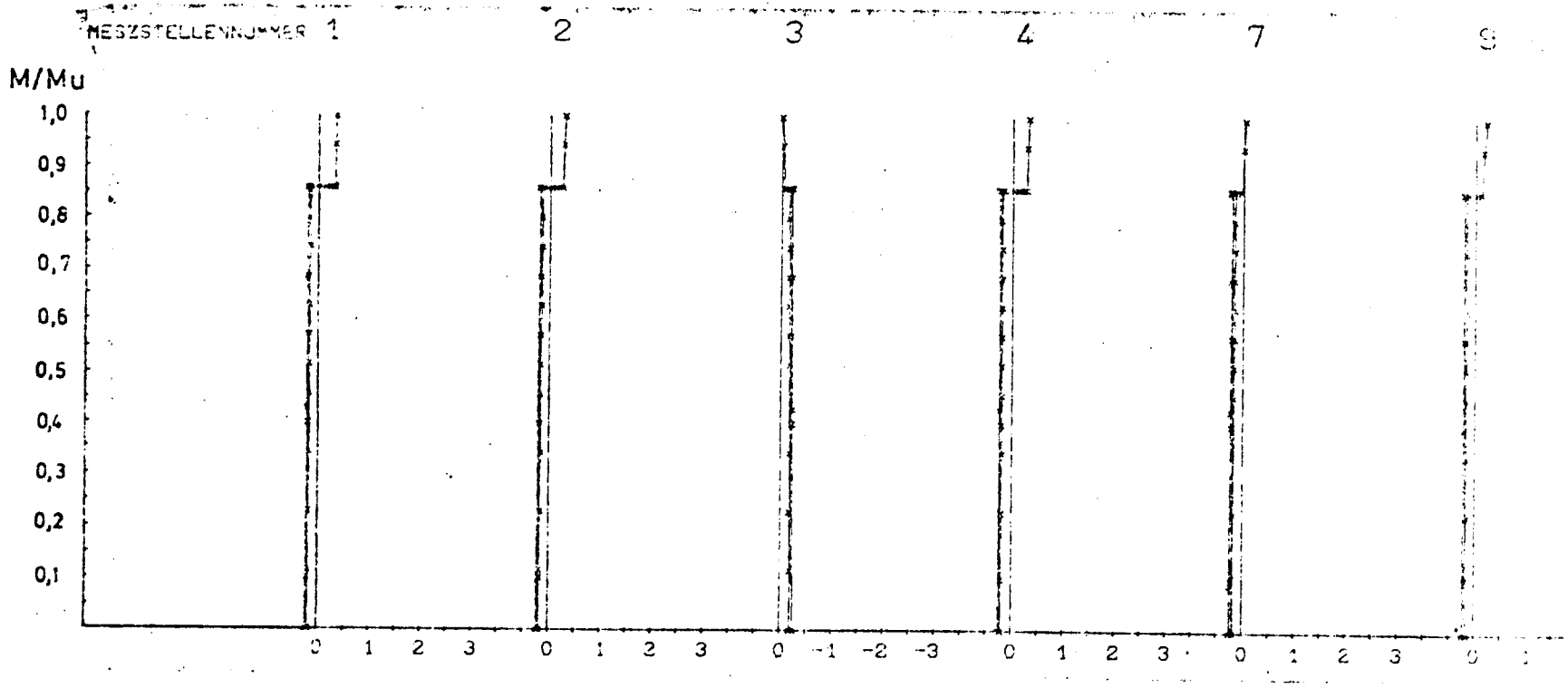
Bügeldehnungen des Balkens SETMQ 1

Schnitt I



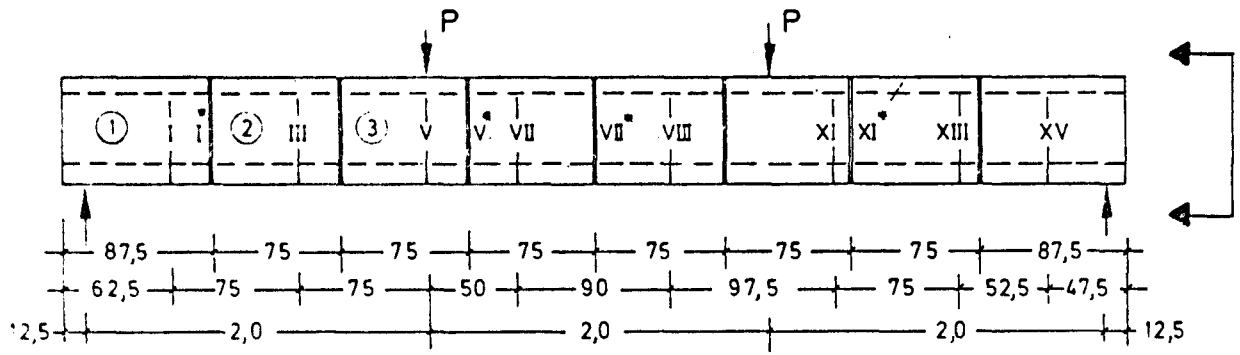


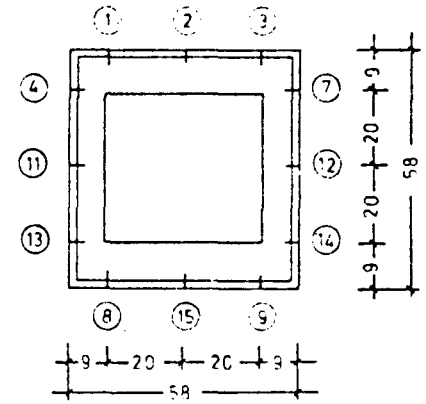
Meßquerschnitt
Meßstellen für
Bügel



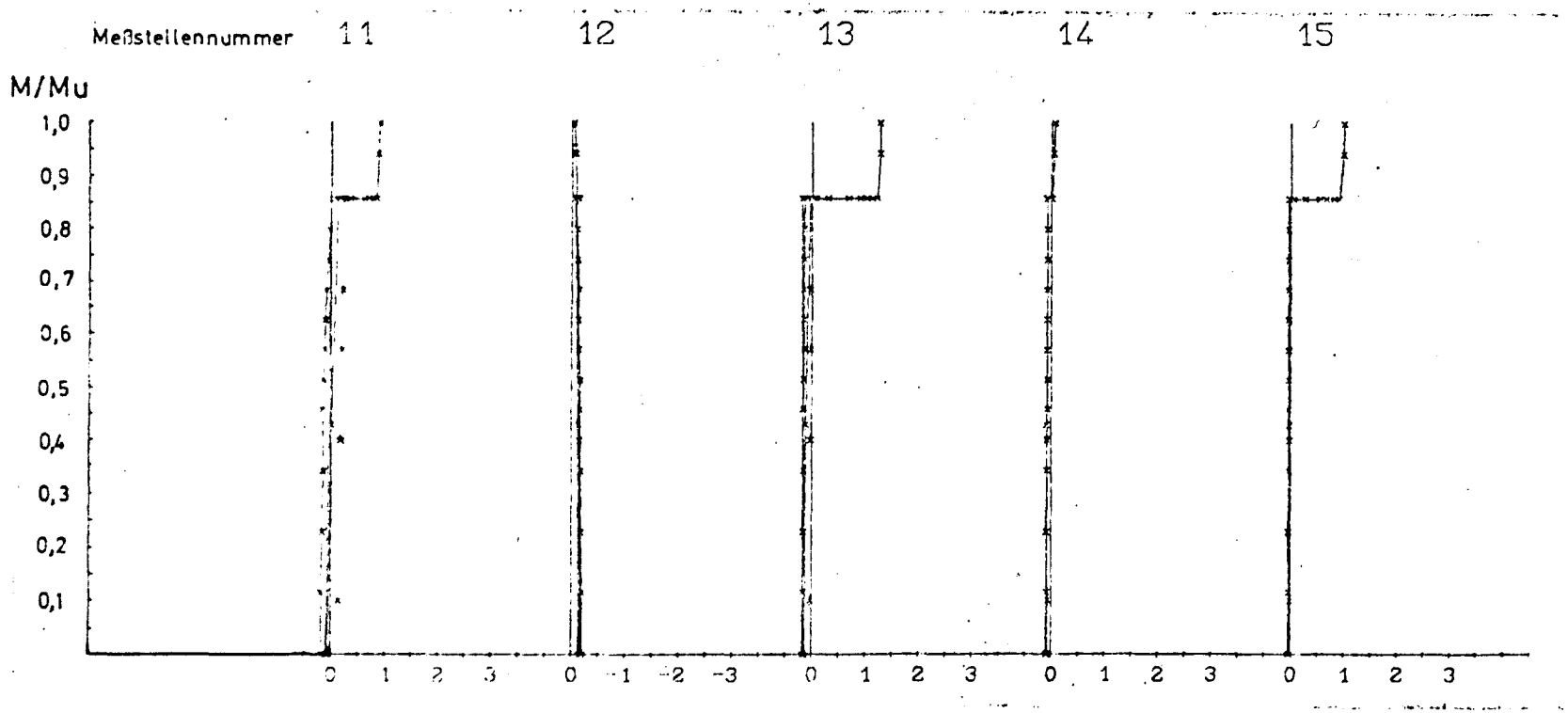
Bügeldehnungen des Balkens SETMQ 1

Schnitt I



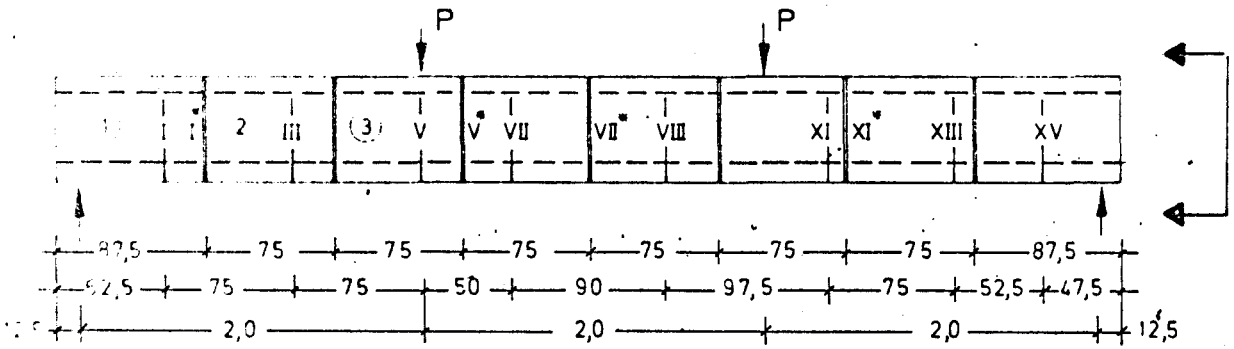


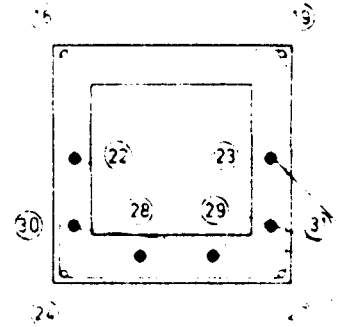
Meßquerschnitt
Meßstellen für
Bügel



Langsstahldehnungen des Balkens SETMQ 1

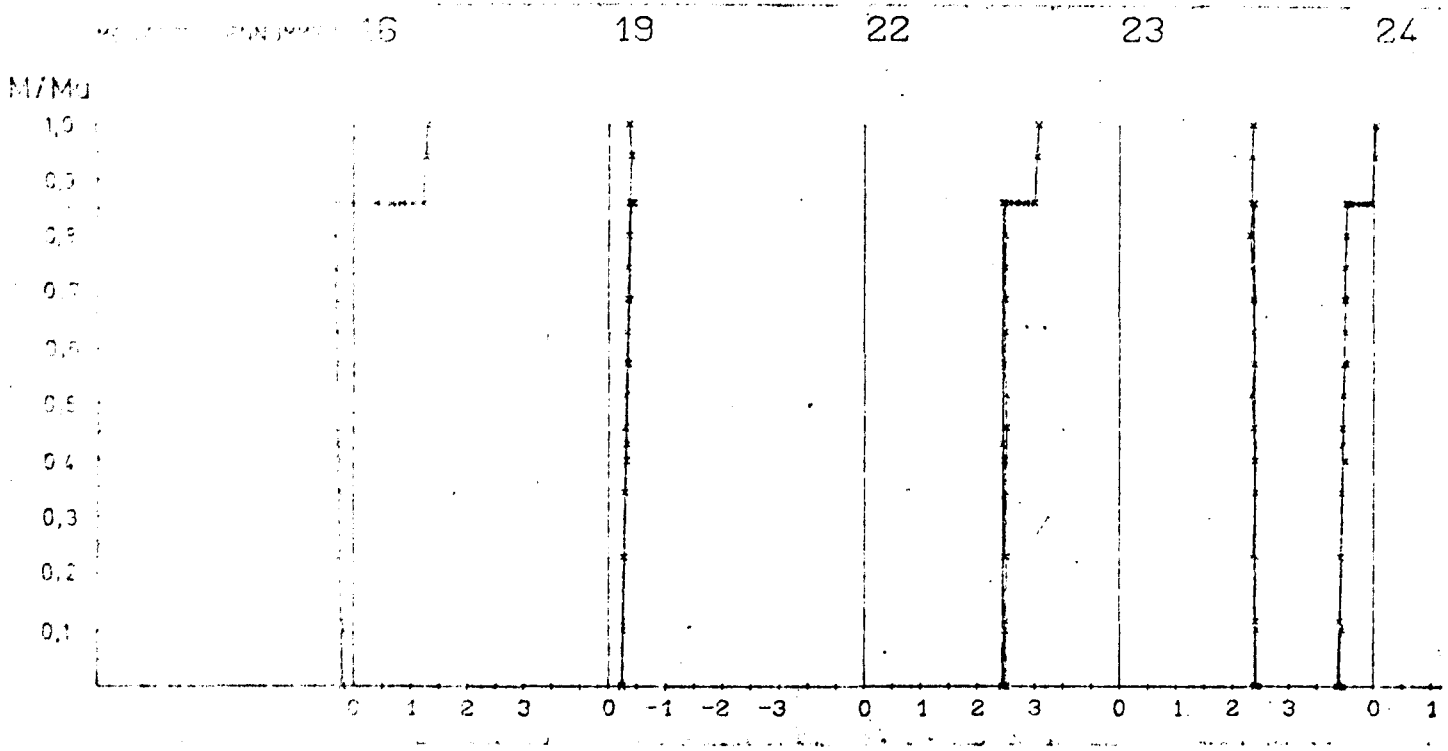
Schnitt I





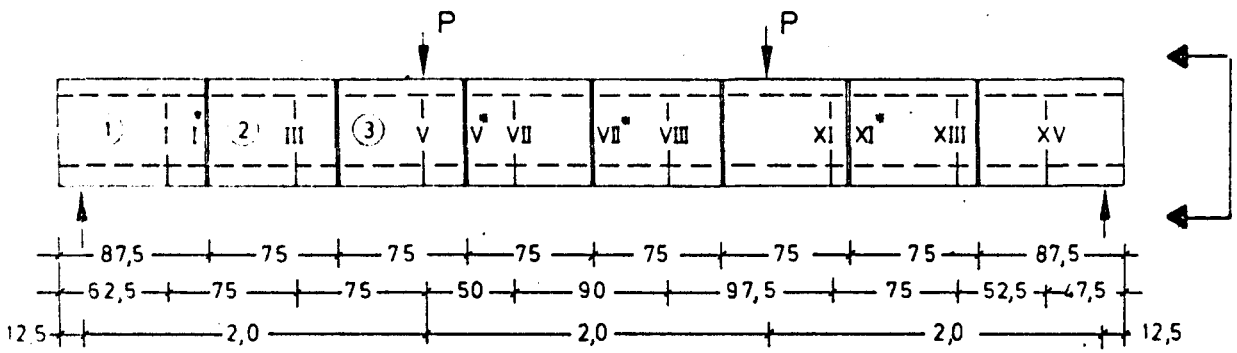
Meßquerschnitt
Meßstellen für
Langsbewehrung
einschl. Spannglie

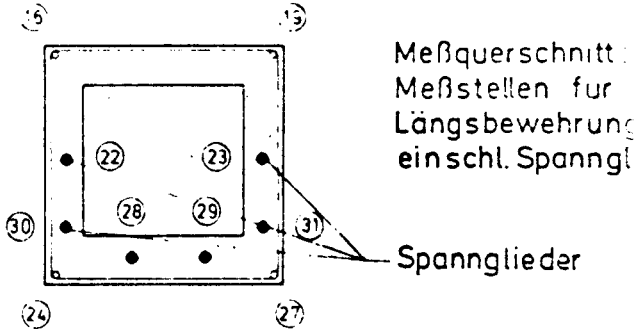
Spannglieder

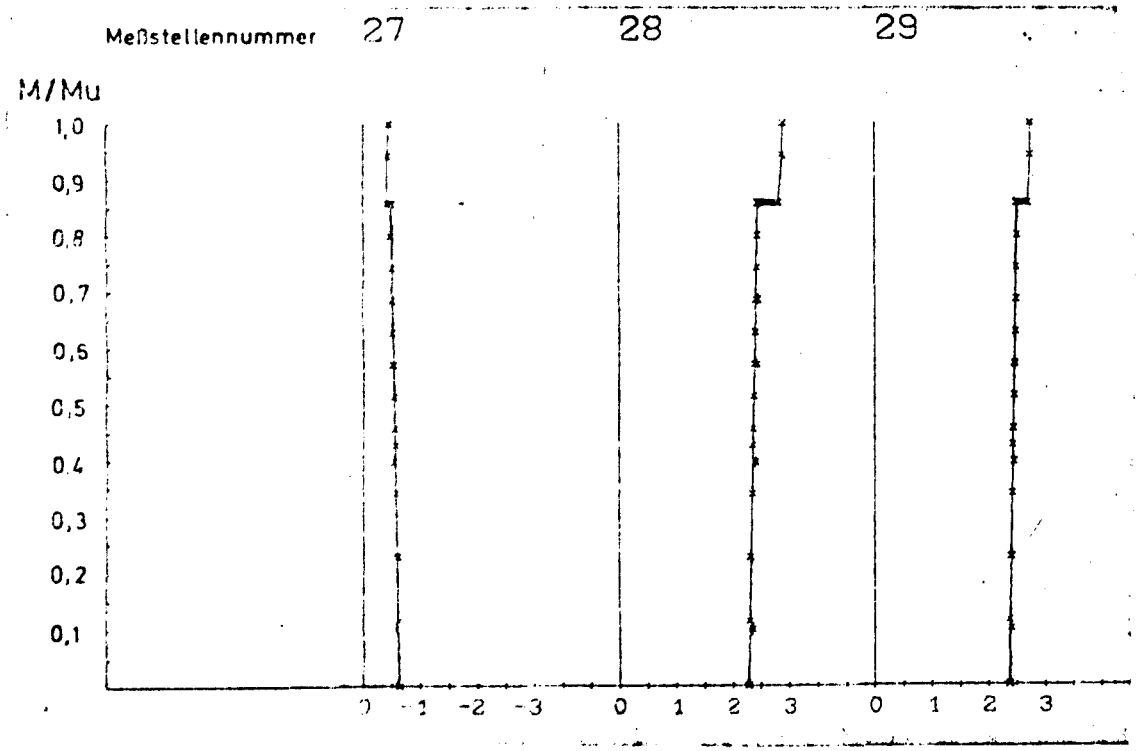


Längsstahldehnungen des Balkens SETMQ 1

Schnitt I

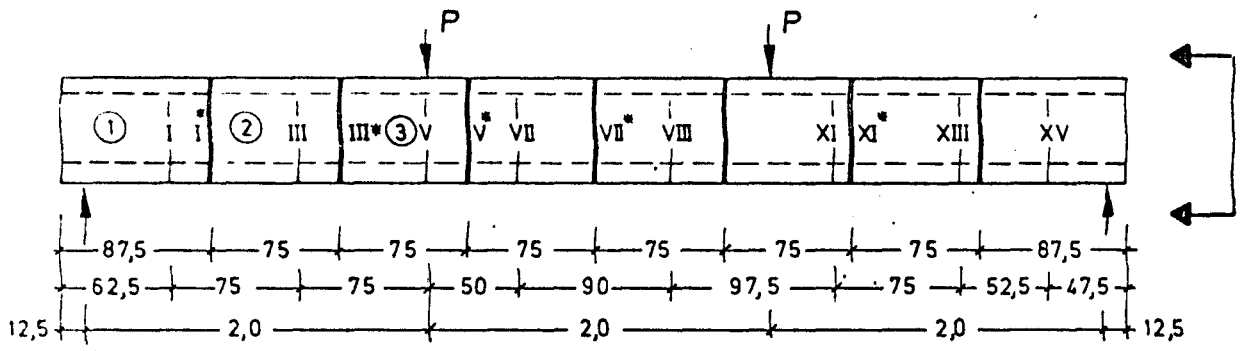


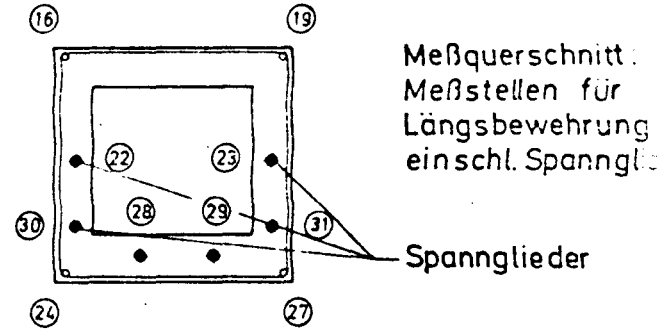


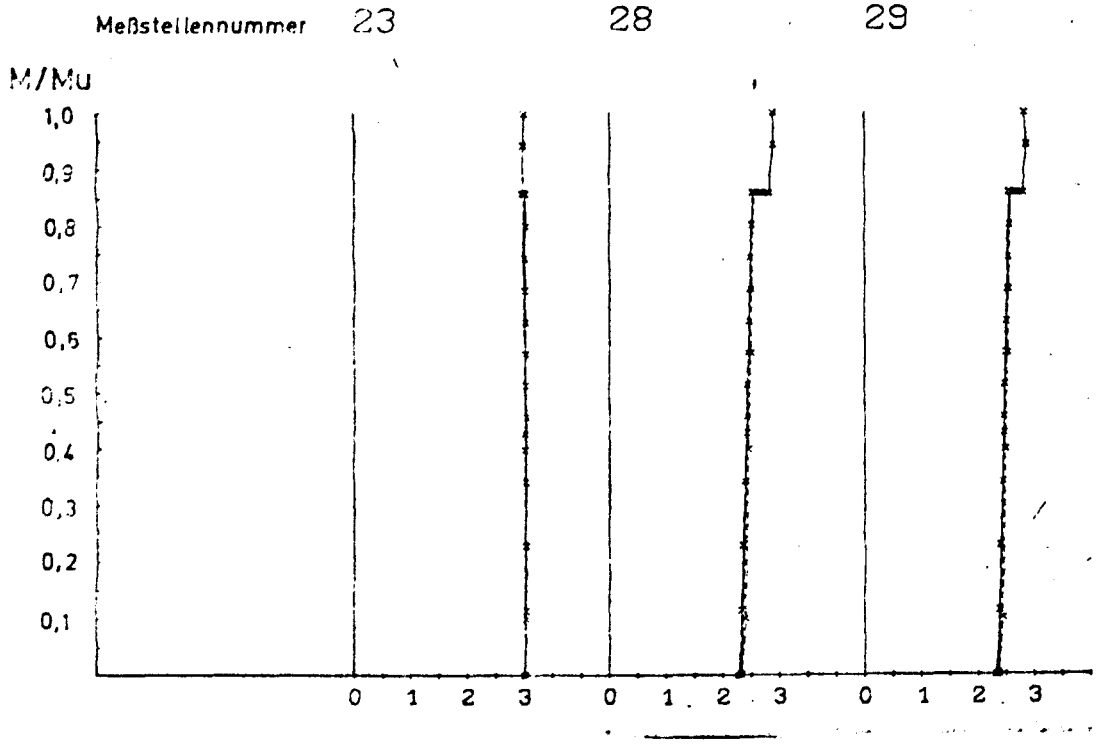


Längsstahldehnungen des Balkens SETMQ 1

Schnitt I *

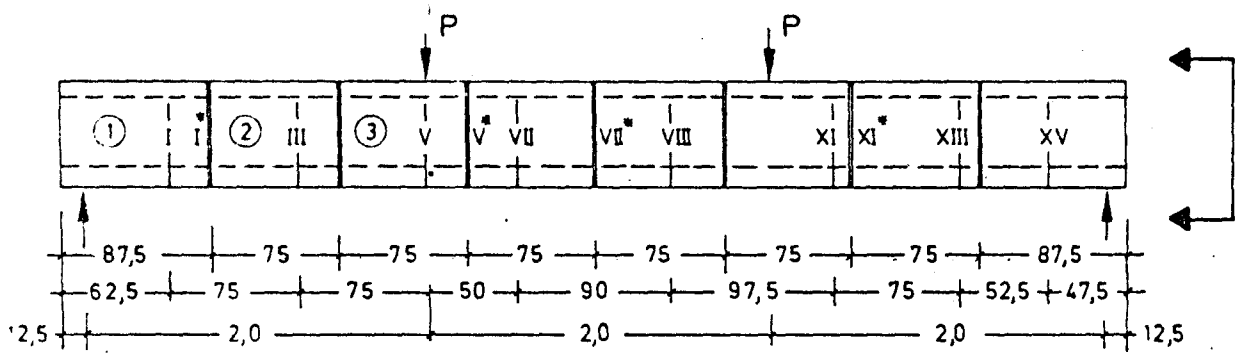


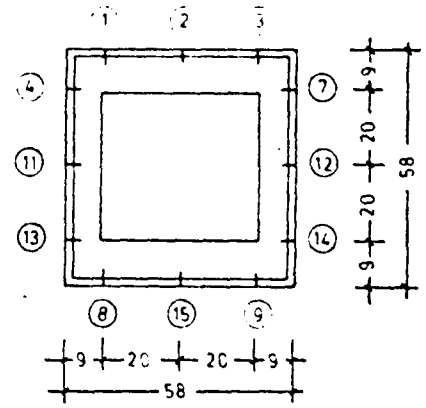




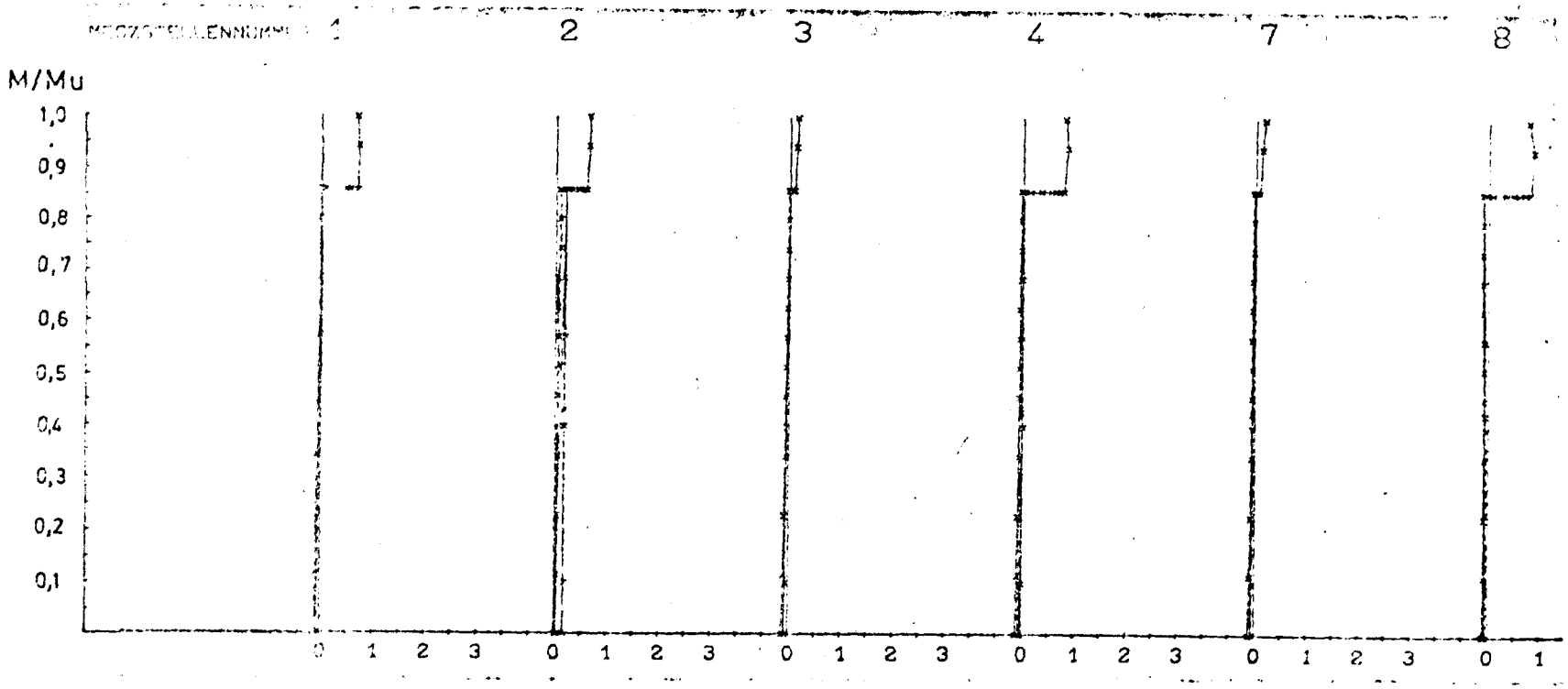
Bügeldehnungen des Balkens SETMQ 1

Schnitt III



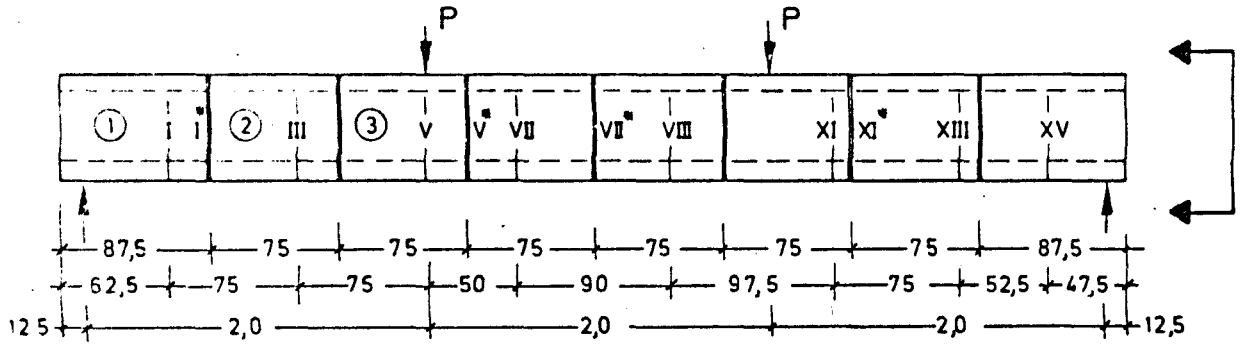


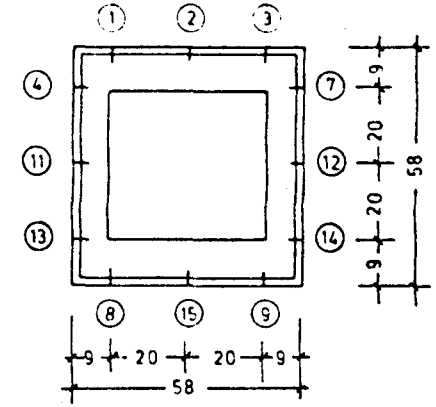
Meßquerschnitt
Meßstellen für
Bügel



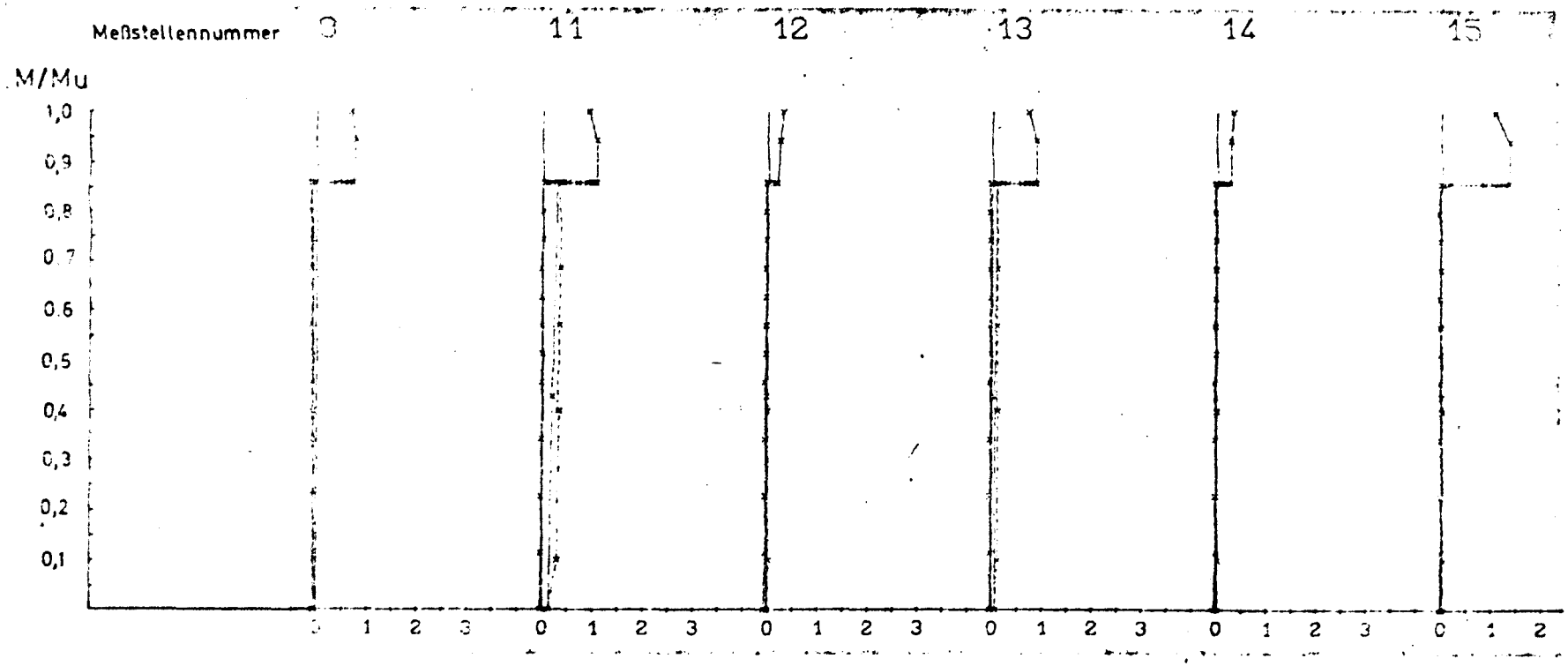
Bügeldehnungen des Balkens SETMQ 1

Schnitt III



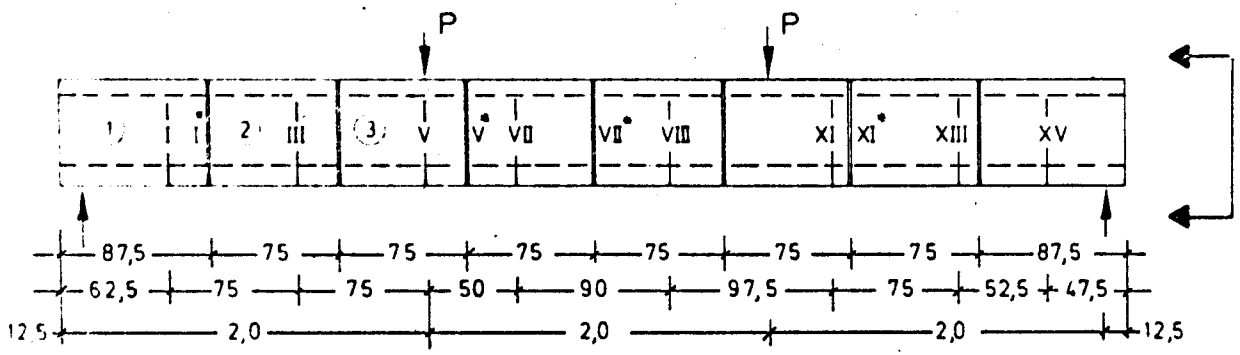


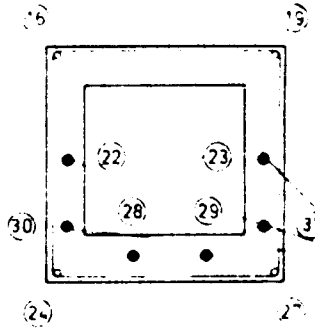
Meßquerschnitt
Meßstellen für
Bügel



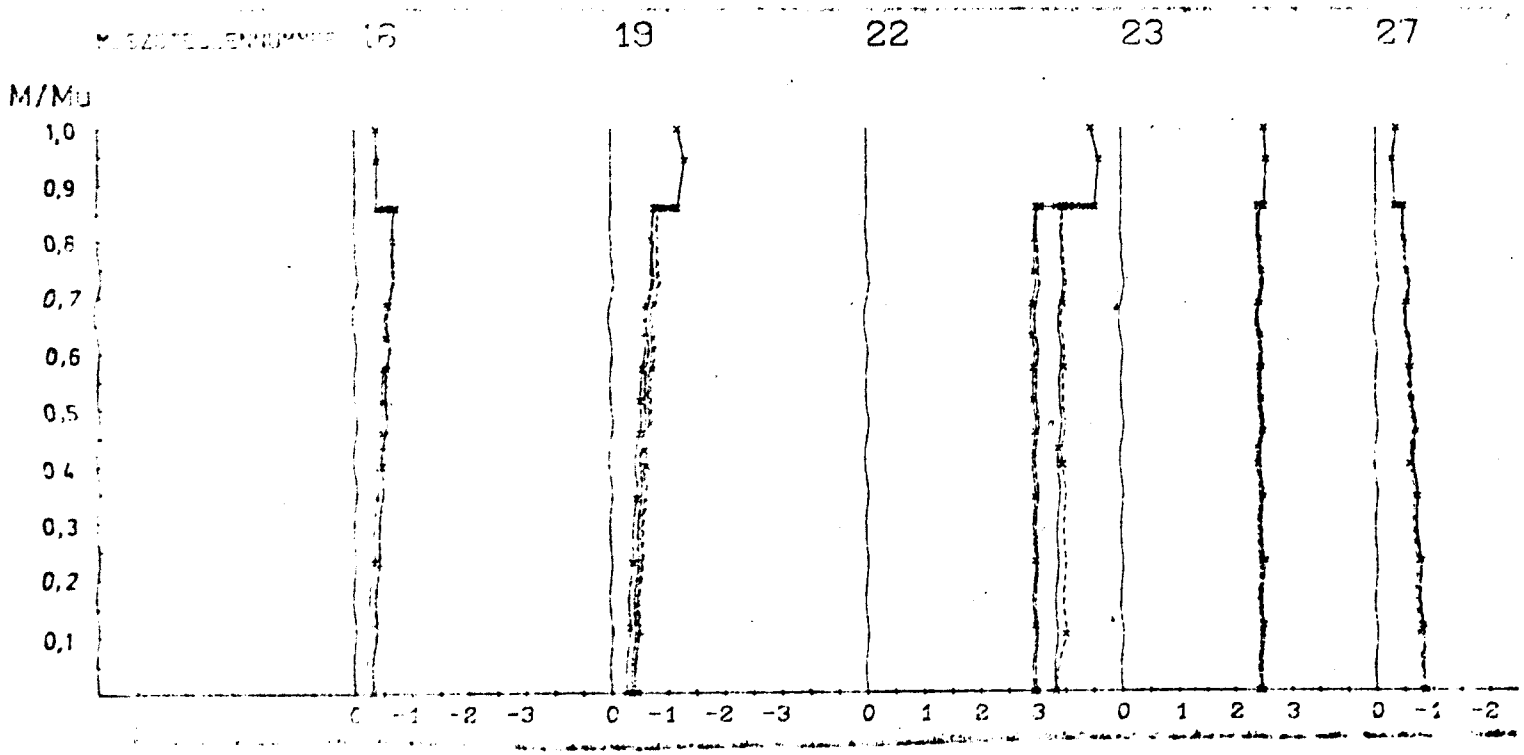
Längsstahldehnungen des Balkens SETMQ 1

Schnitt III



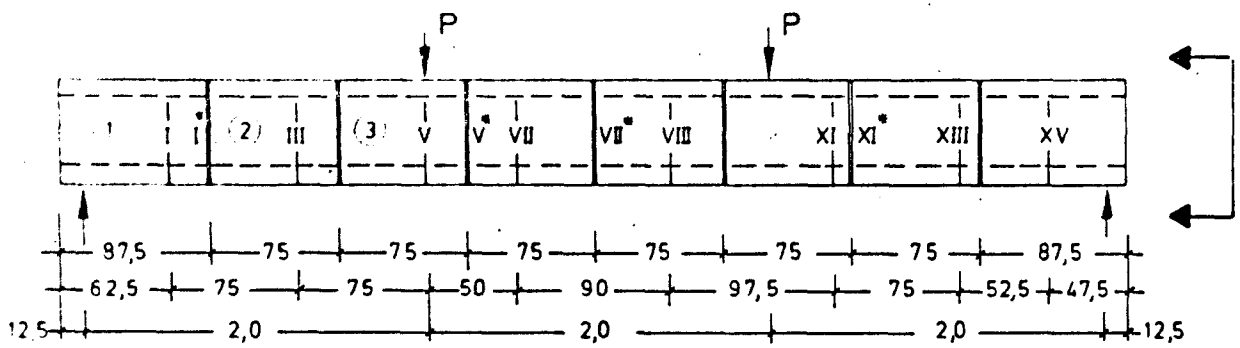


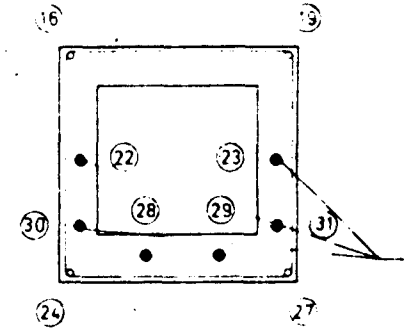
Meßquerschnitt
Meßstellen für
Längsbewehrung
einschl. Spannglieder



Längsstahldehnungen des Balkens SETMQ 1

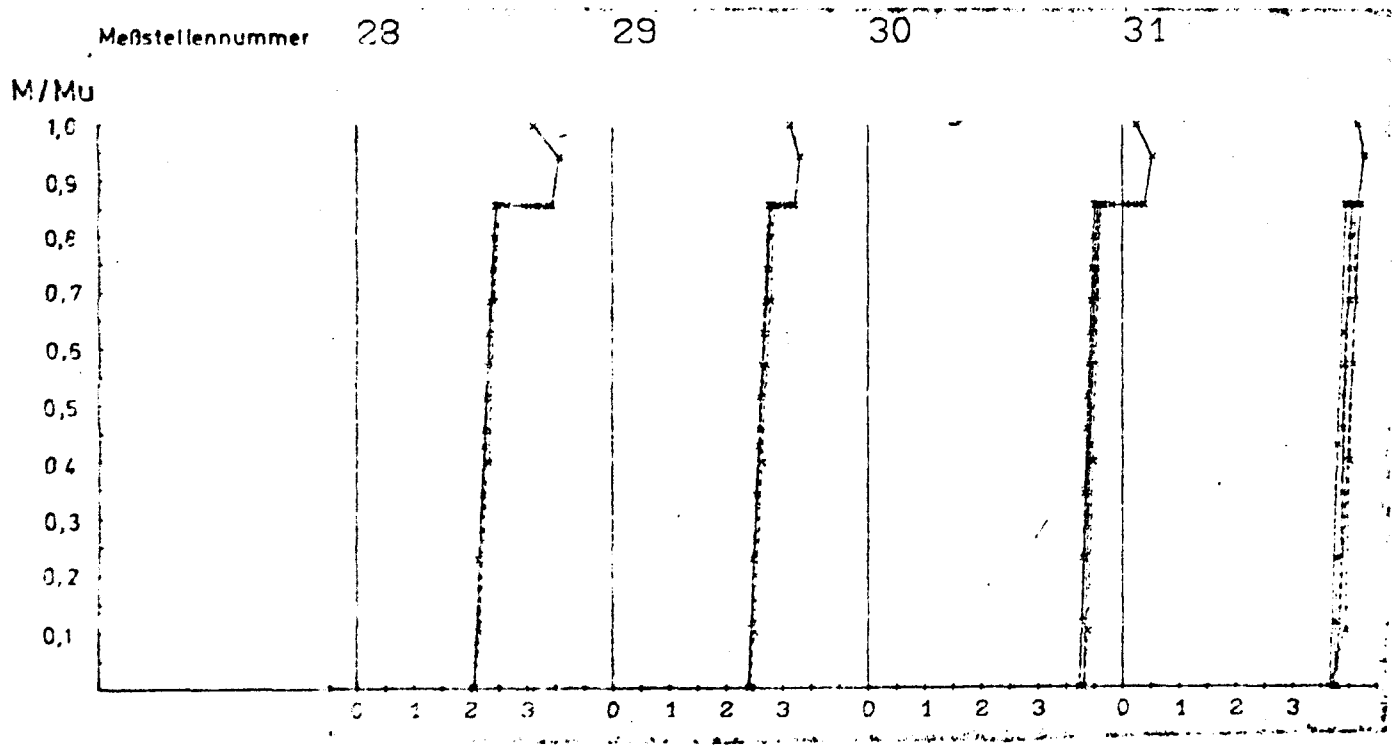
Schnitt III





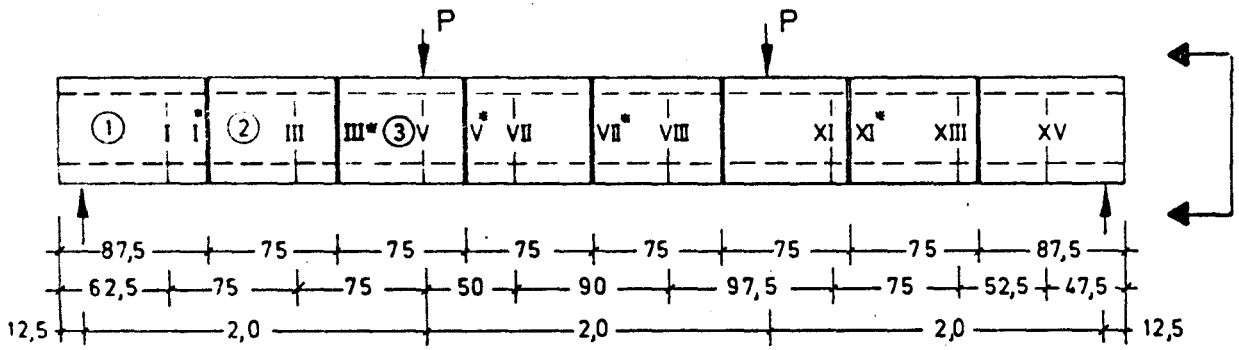
Meßquerschnitt
Meßstellen für
Längsbewehrung
einschl. Spannglied

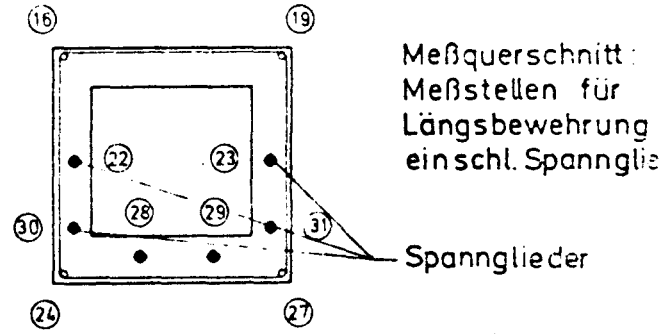
Spannglieder



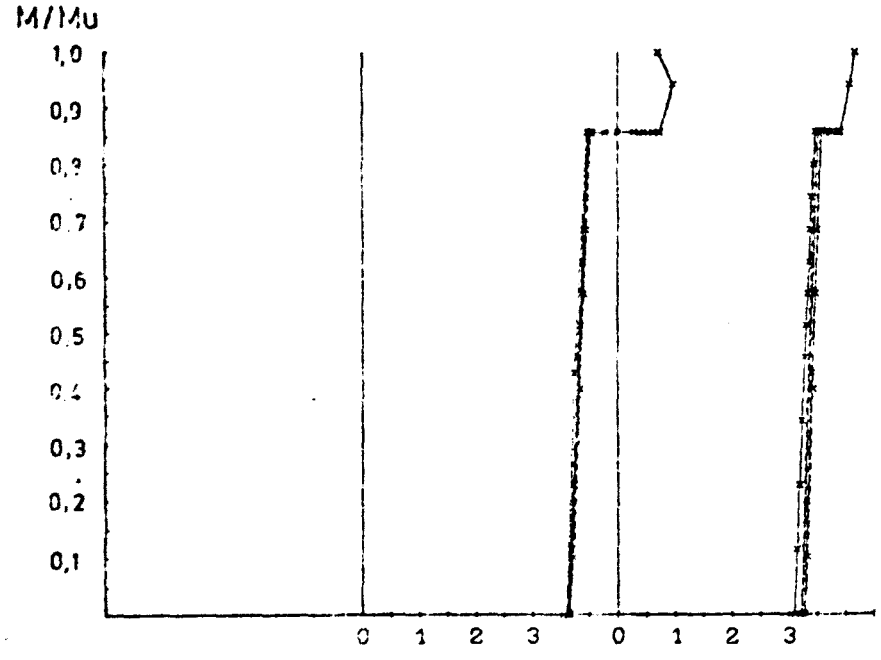
Längsstahldehnungen des Balkens SETMQ 1

Schnitt III *



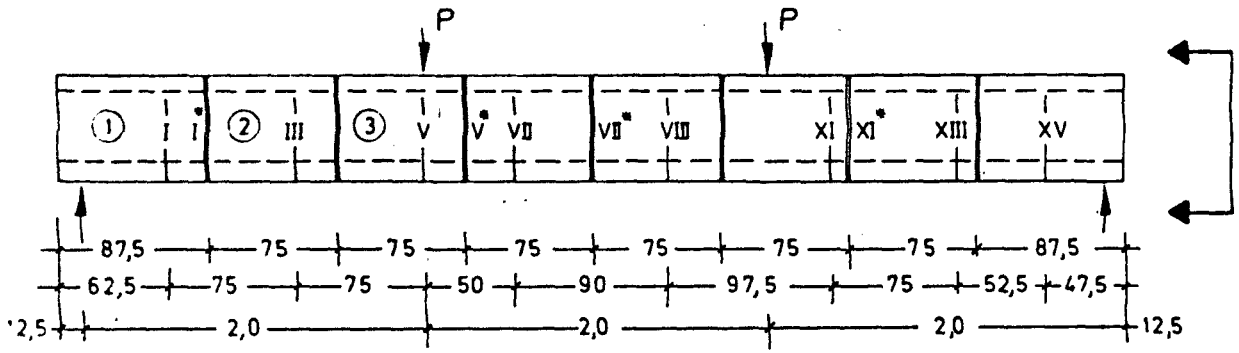


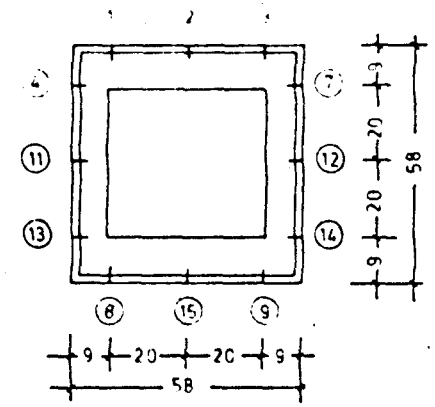
Meßstellennummer 30 31



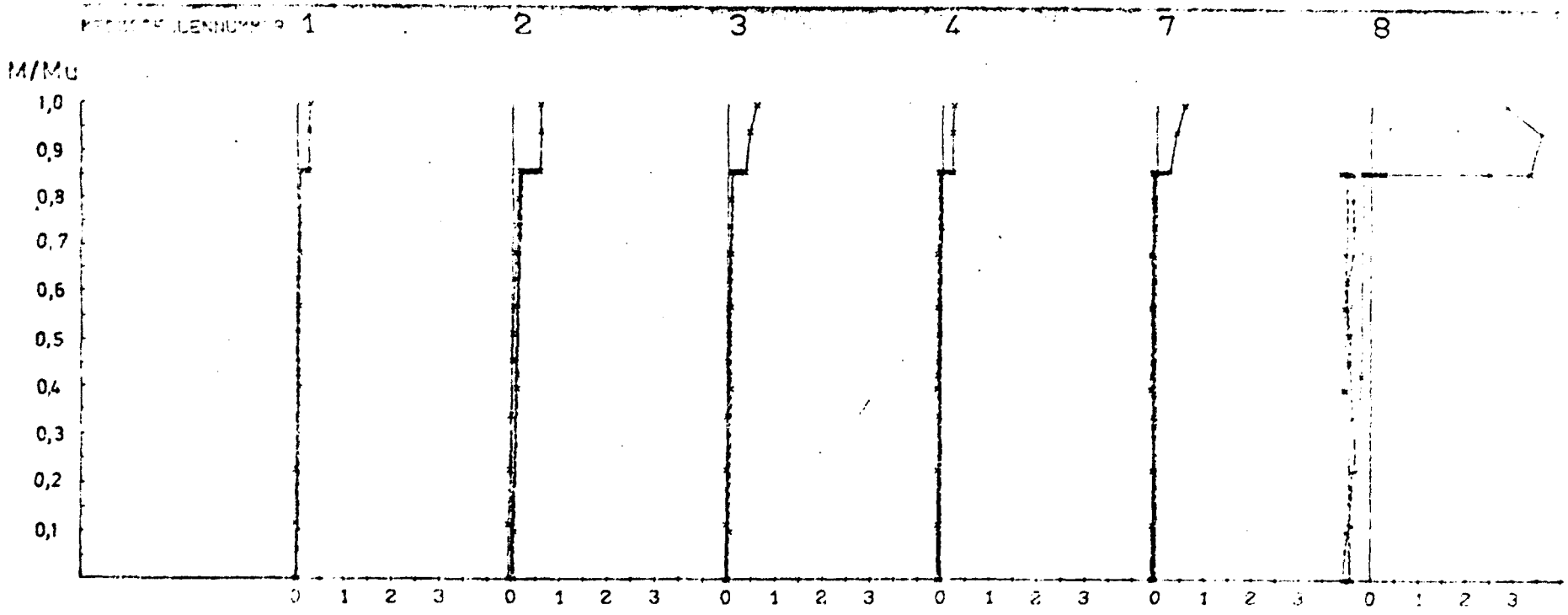
Bügeldehnungen des Balkens SETMQ 1

Schnitt V



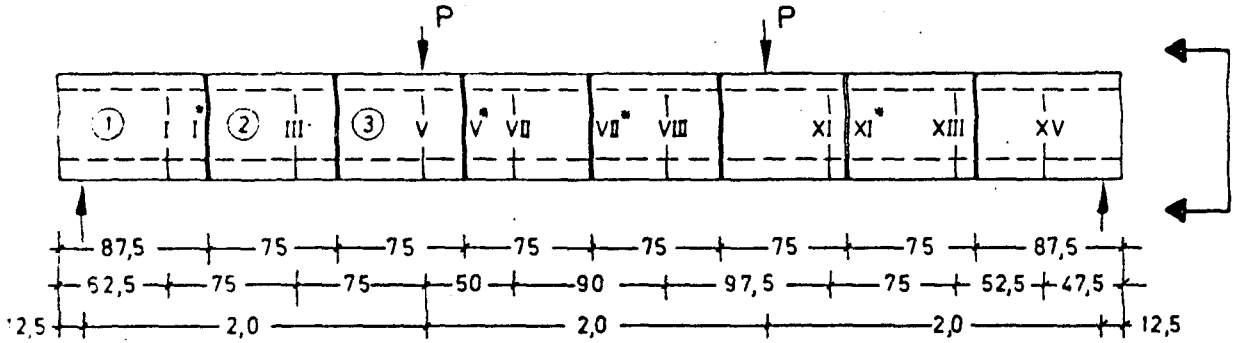


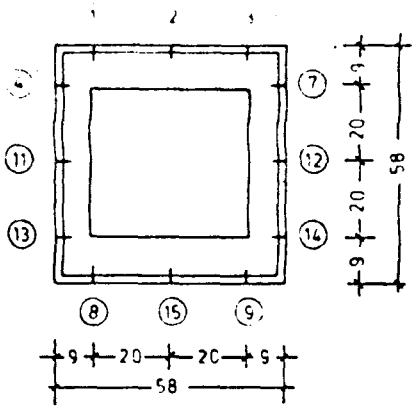
Meßquerschnitt
Meßstellen für
Bügel



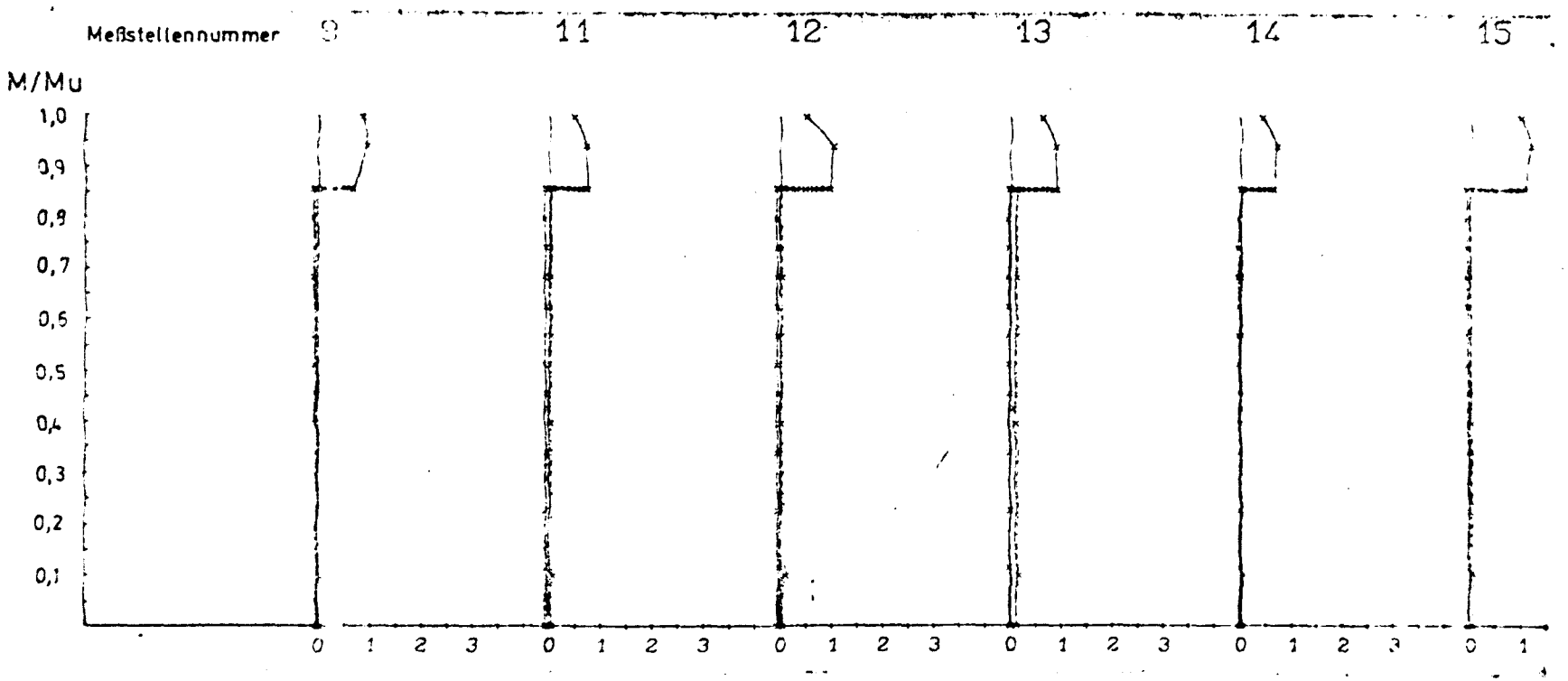
Bügeldehnungen des Balkens SETMQ 1

Schnitt V



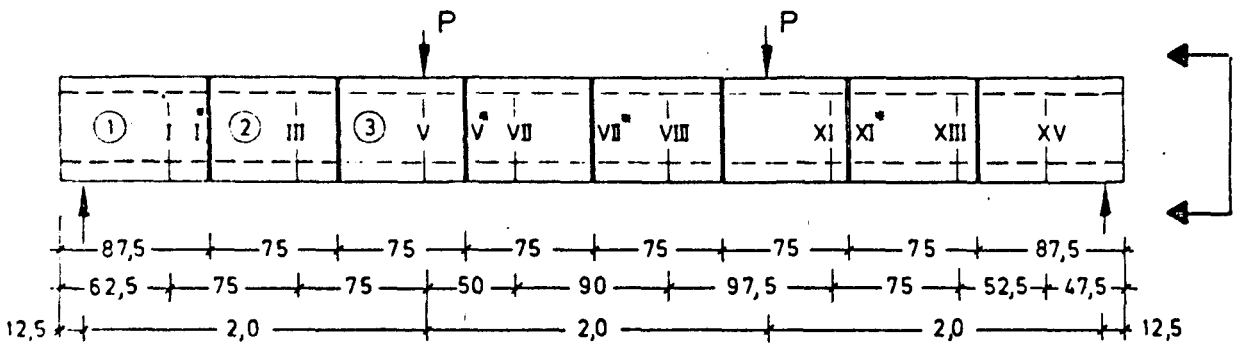


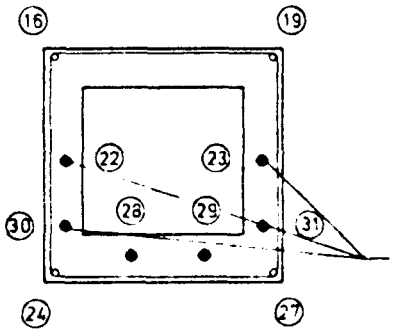
Meßquerschnitt
Meßstellen für
Bugel



Längsstahldehnungen des Balkens SETMQ 1

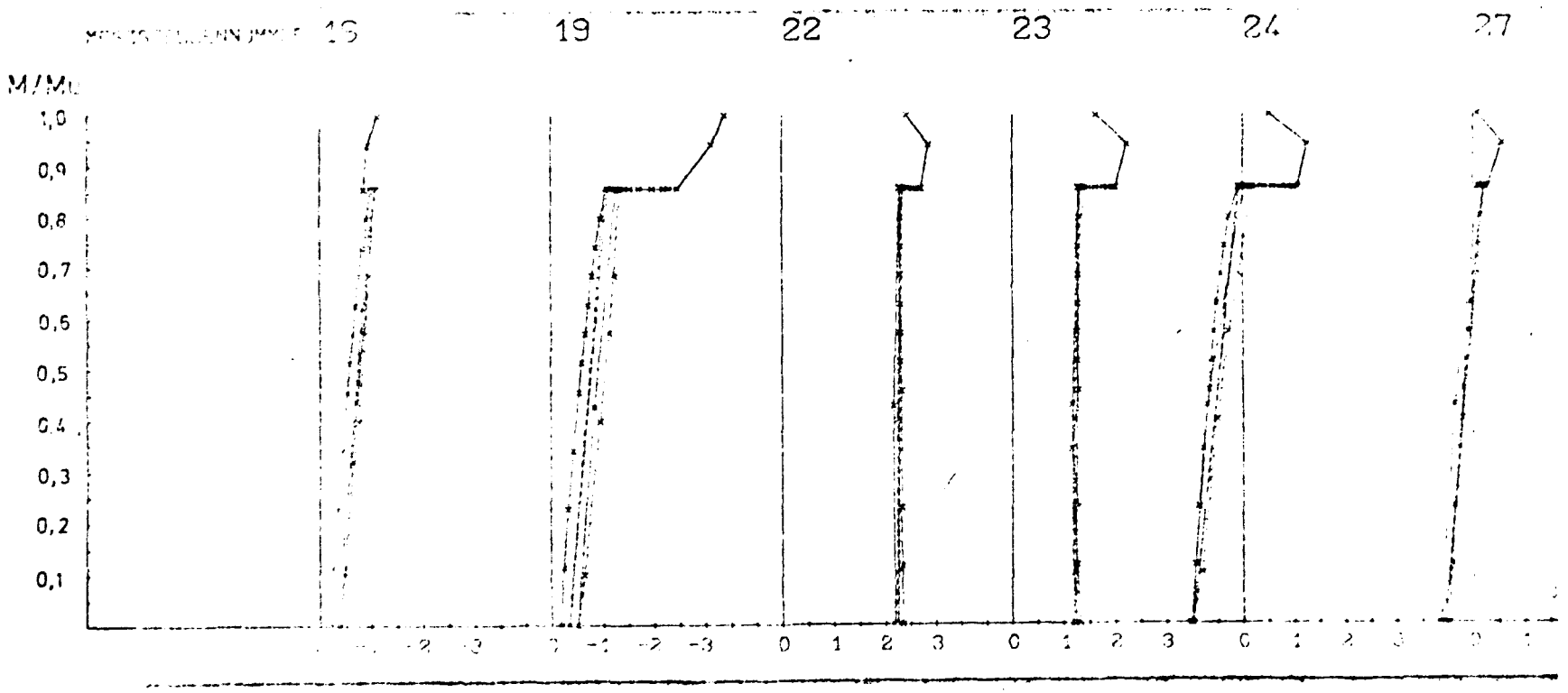
Schnitt V





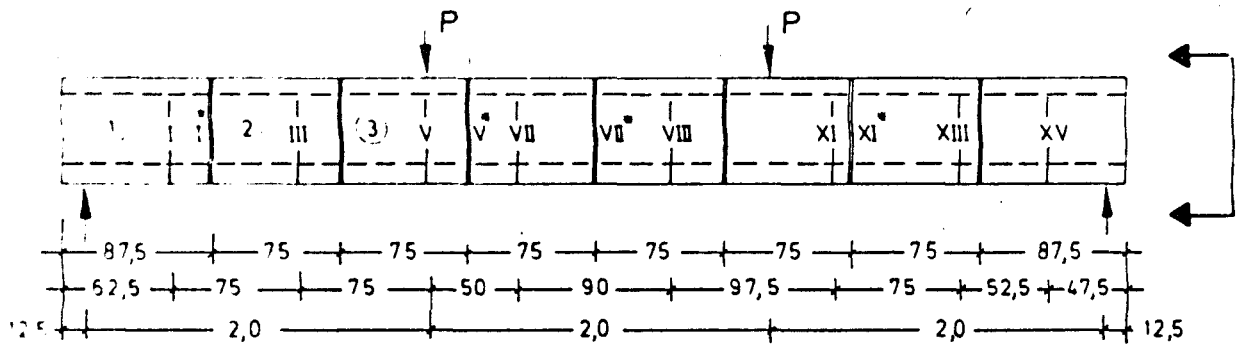
Meßquerschnitt:
Meßstellen für
Längsbewehrung
einschl. Spannglie

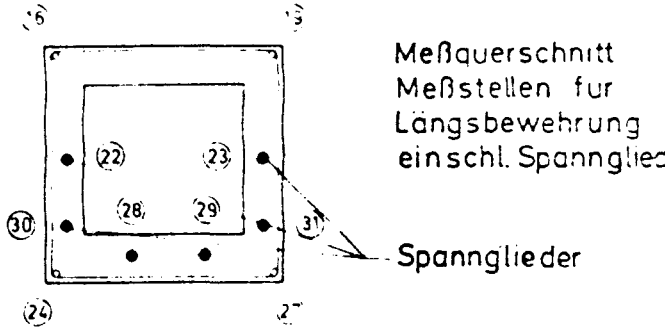
Spannglieder

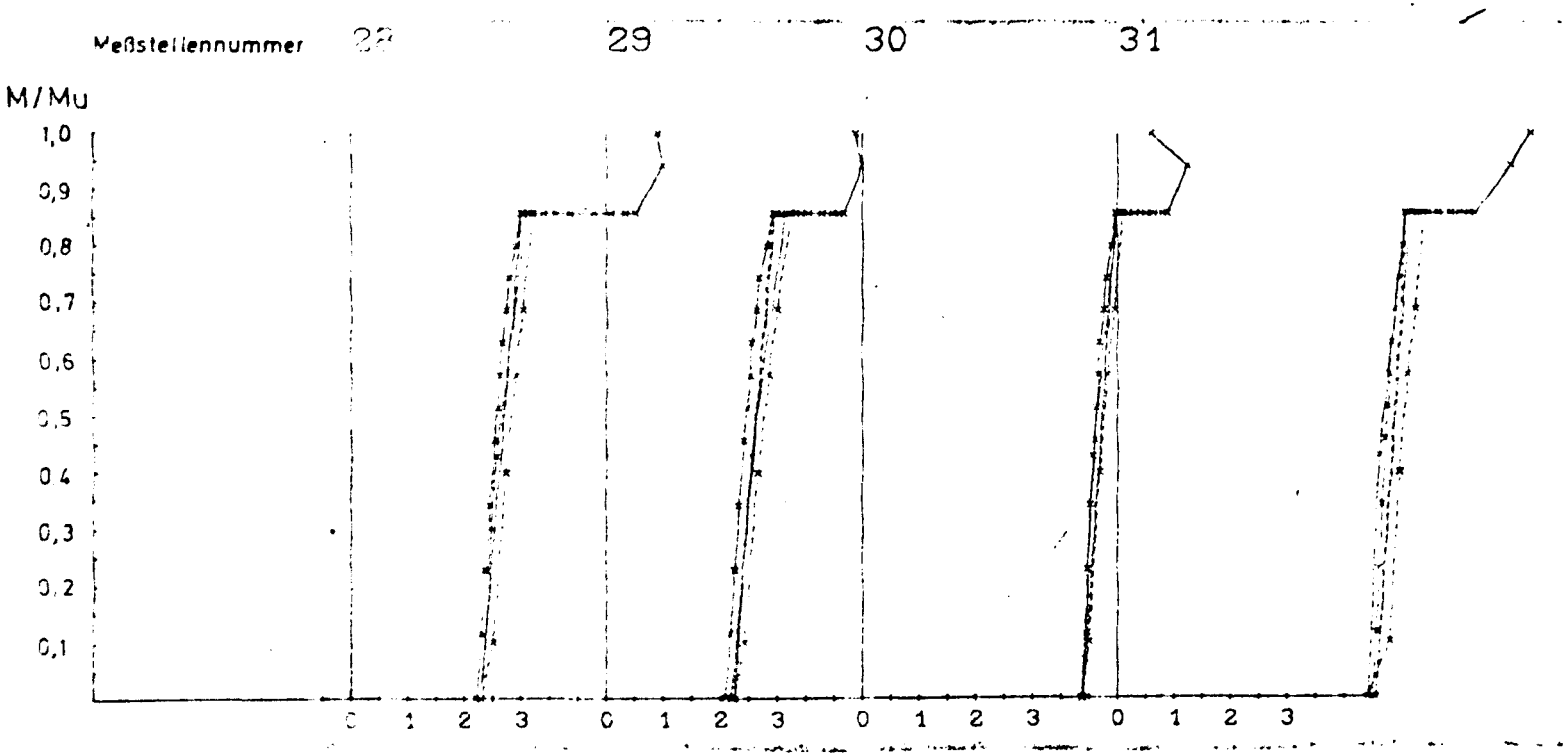


Längsstahldehnungen des Balkens SETMQ 1

Schnitt V

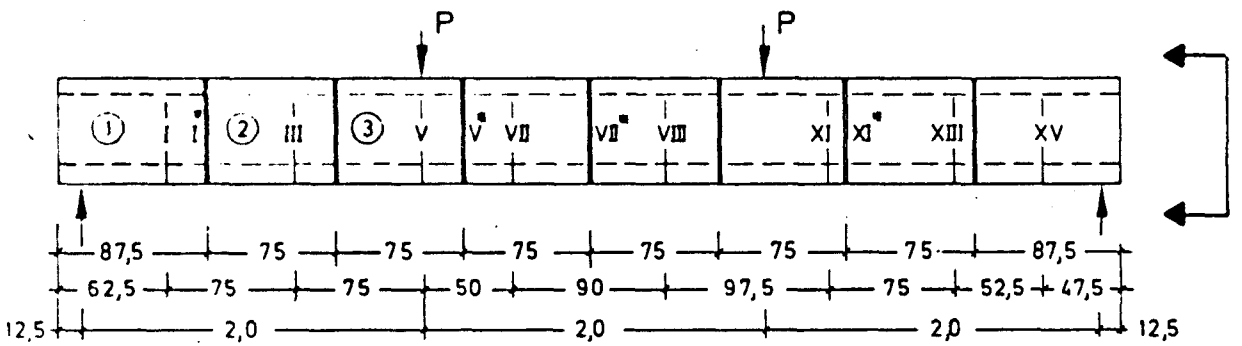


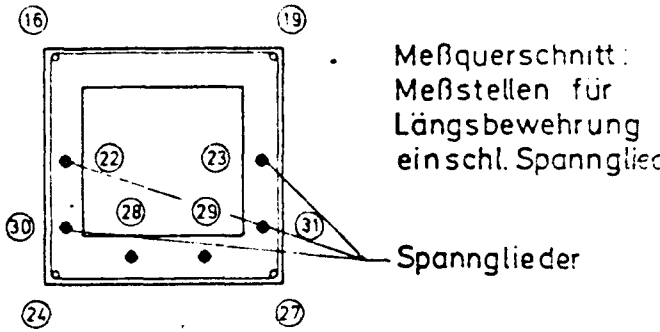


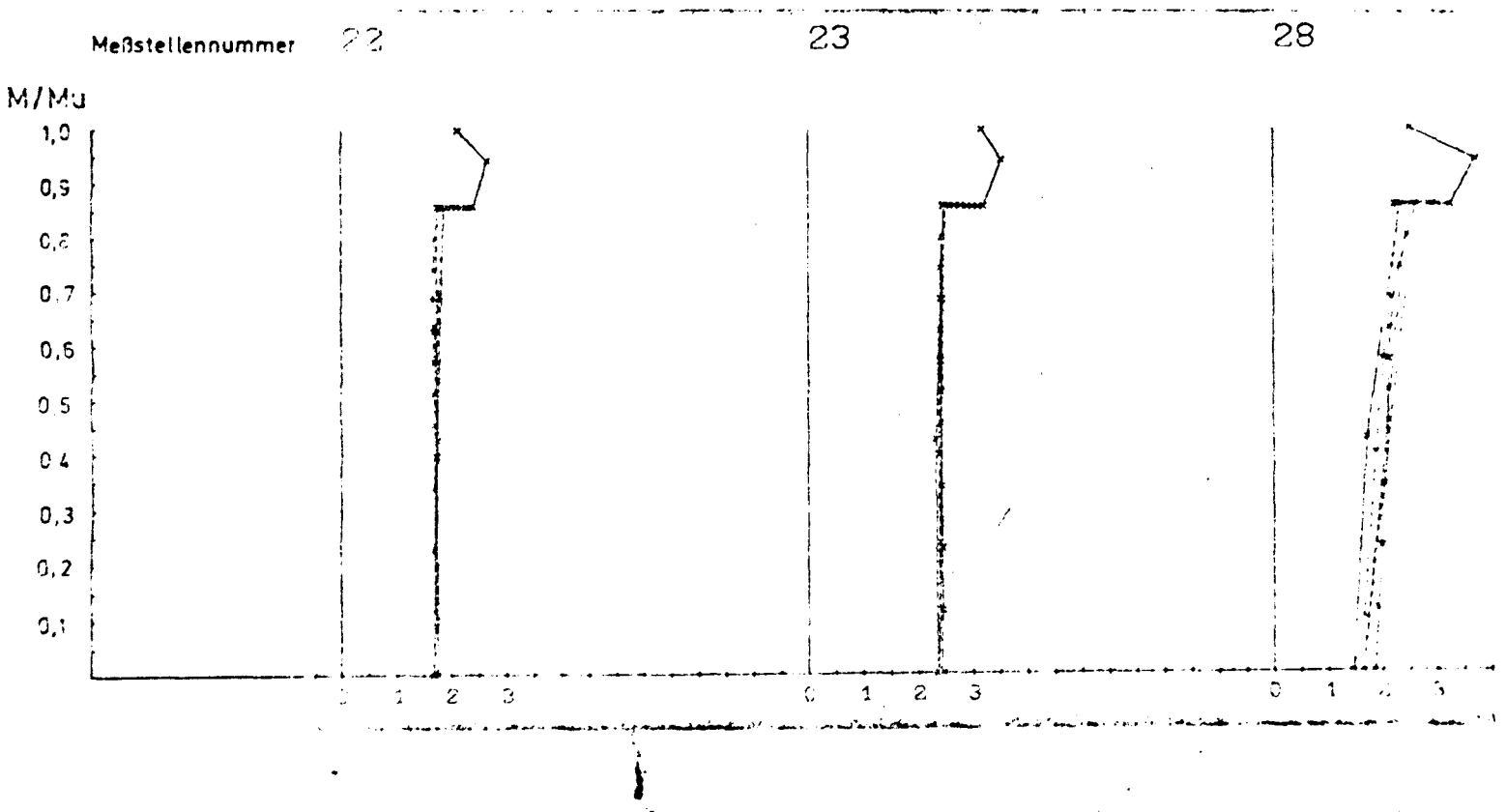


Längsstahldehnungen des Balkens SETMQ 1

Schnitt V*

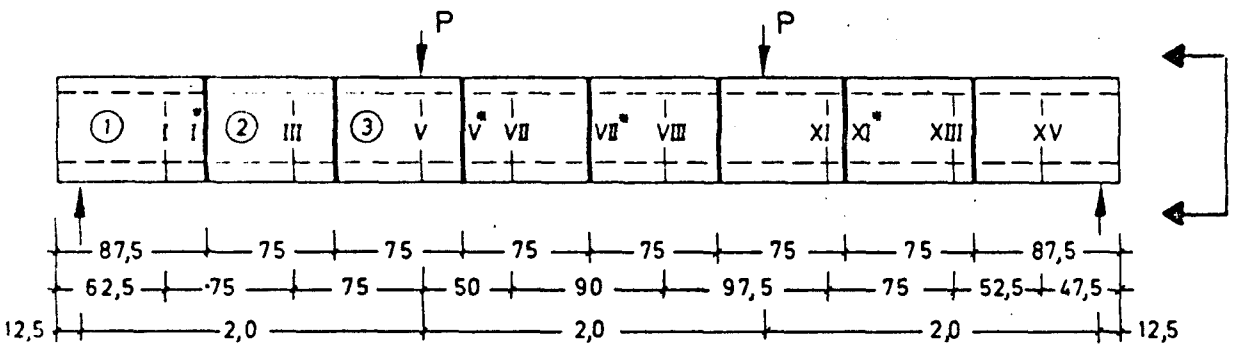


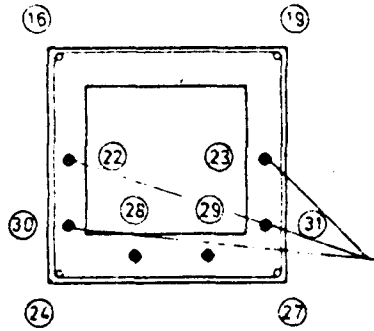




Längsstahldehnungen des Balkens SETMQ 1

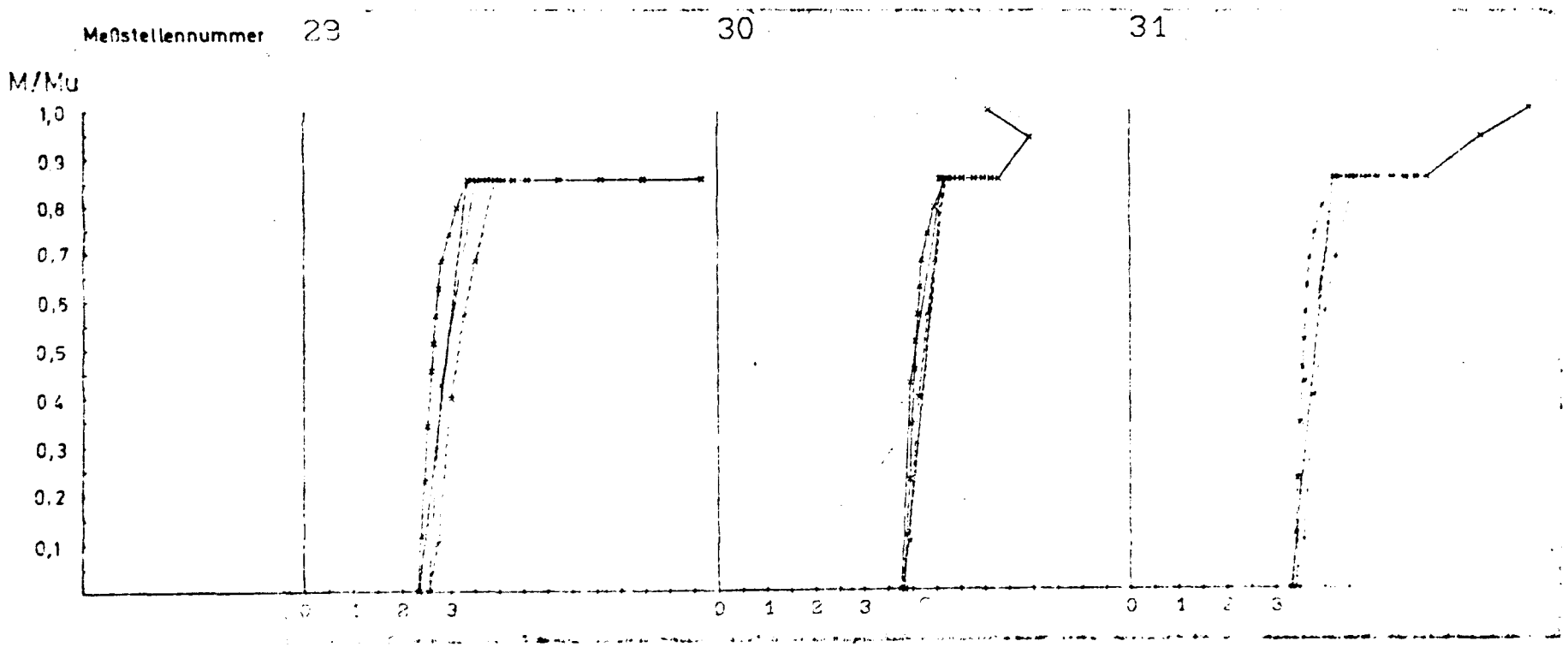
Schnitt V*





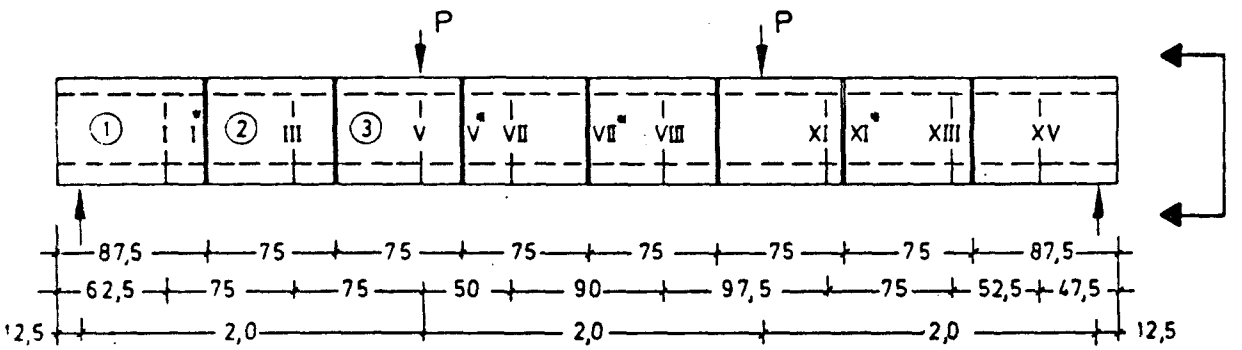
Meßquerschnitt
Meßstellen für
Längsbewehrung
einschl. Spannglie

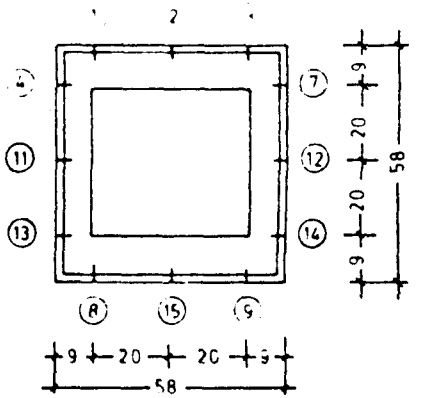
Spannglieder



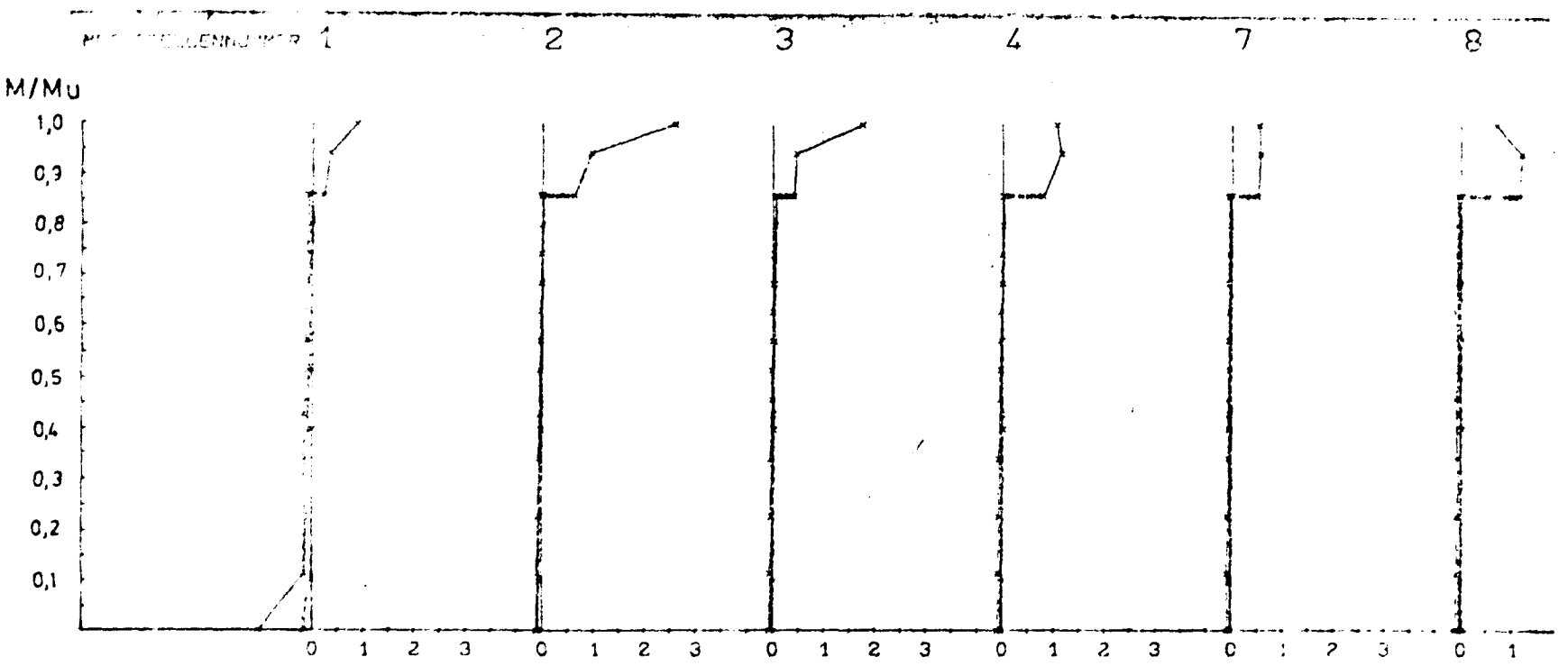
Bügeldehnungen des Balkens SETMQ 1

Schnitt V II



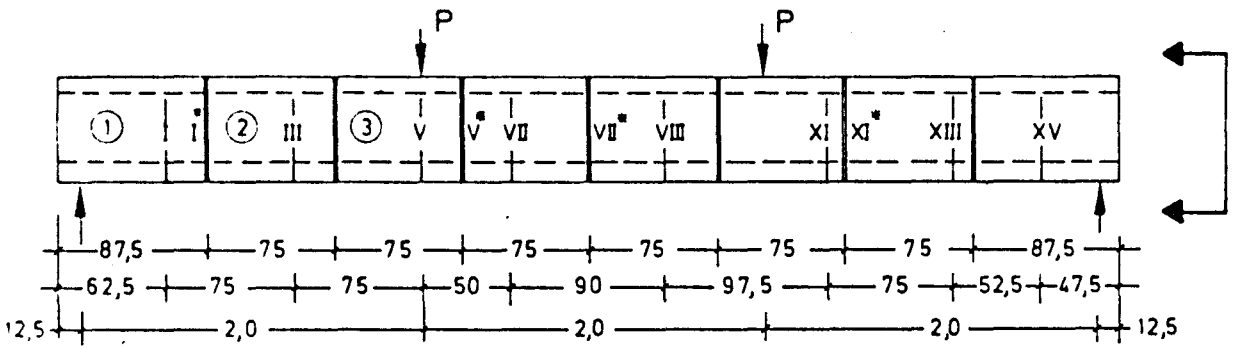


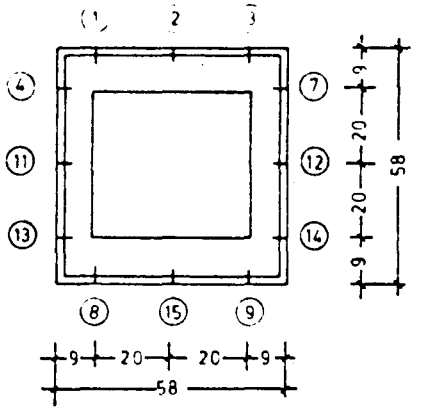
Meßquerschnitt
Meßstellen für
Bügel



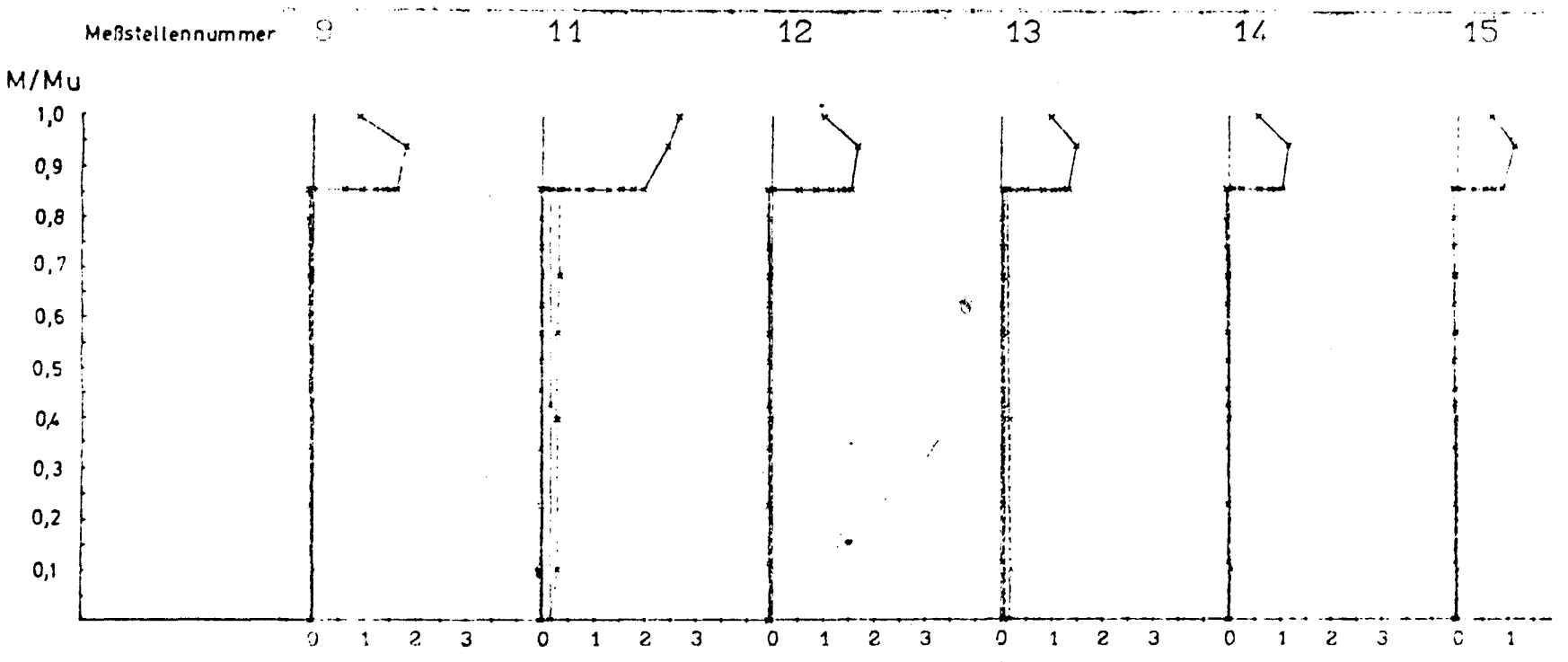
Bügeldehnungen des Balkens SETMQ 1

Schnitt VII



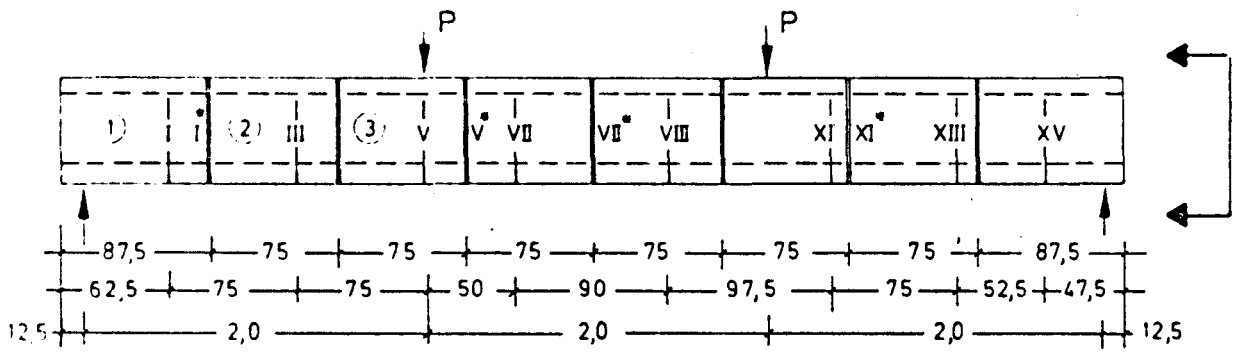


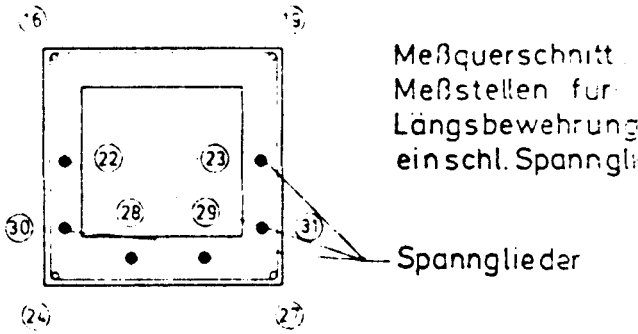
Meßquerschnitt
Meßstellen für
Bügel

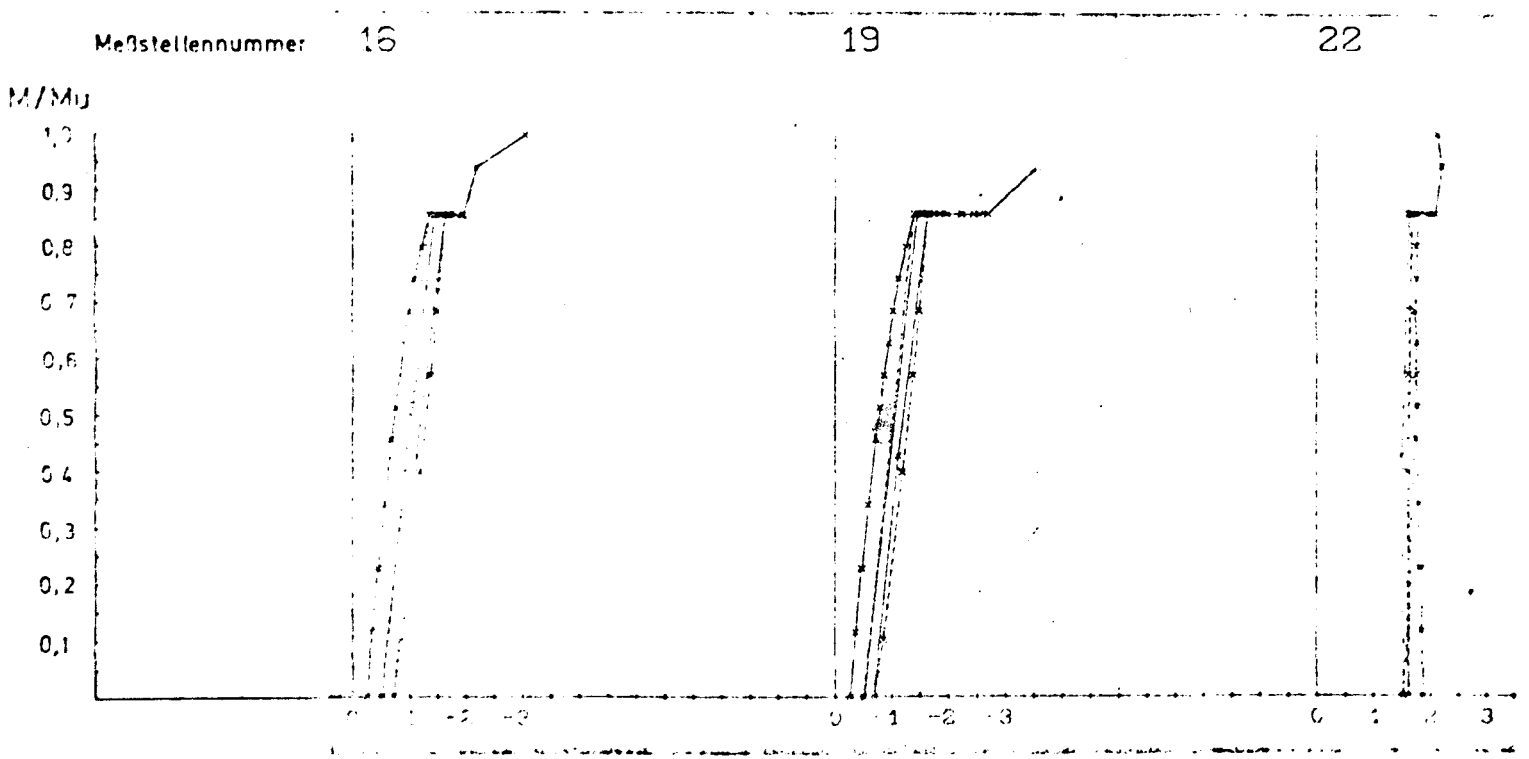


Längsstahldehnungen des Balkens SETMQ 1

Schnitt **VII**

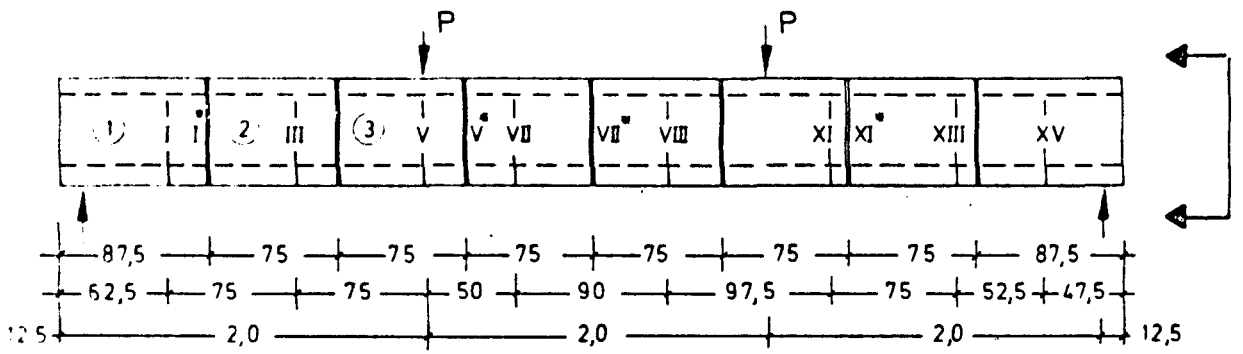


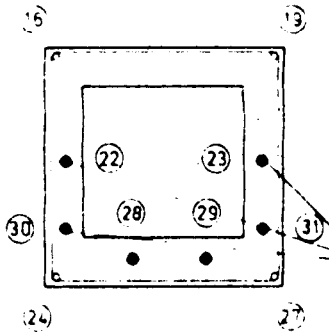




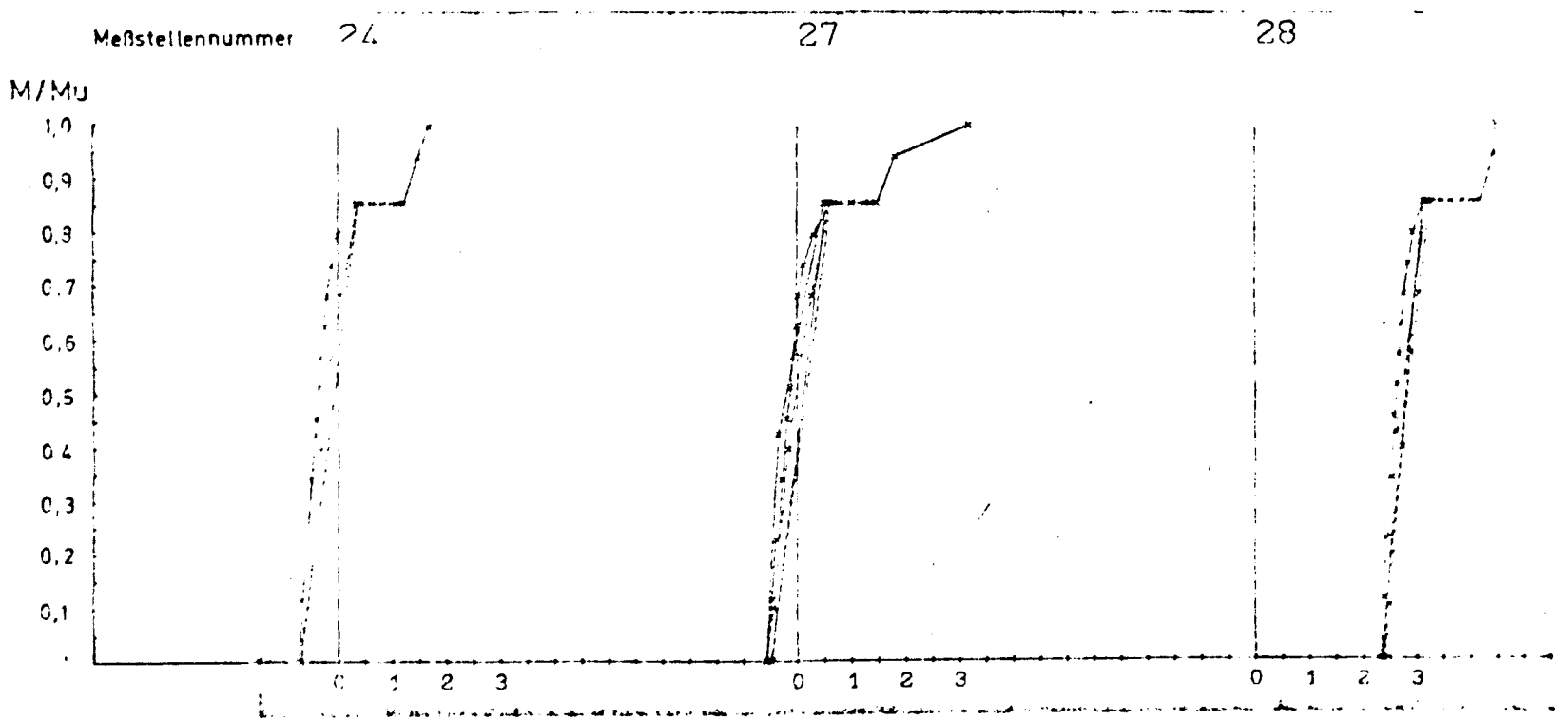
Längsstahldehnungen des Balkens SETMQ 1

Schnitt VII



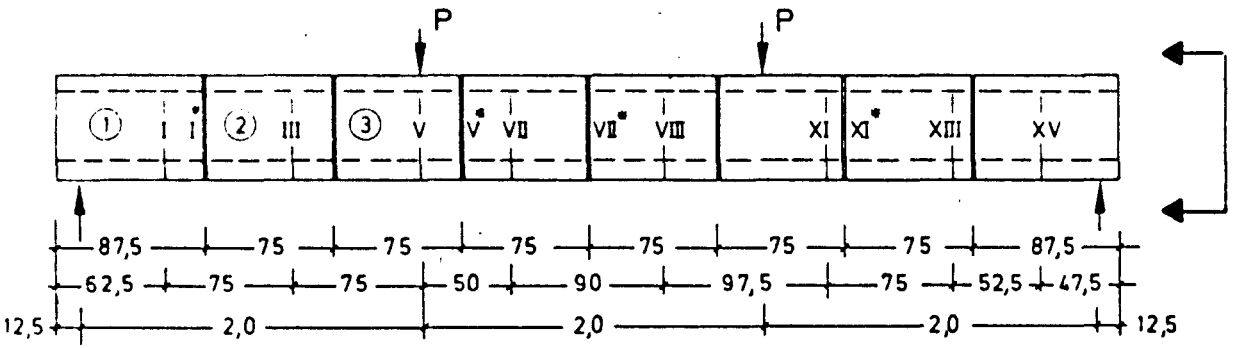


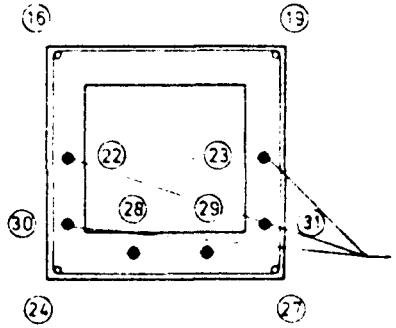
Meßquerschnitt
Meßstellen für
Längsbewehrung
einschl. Spannglie



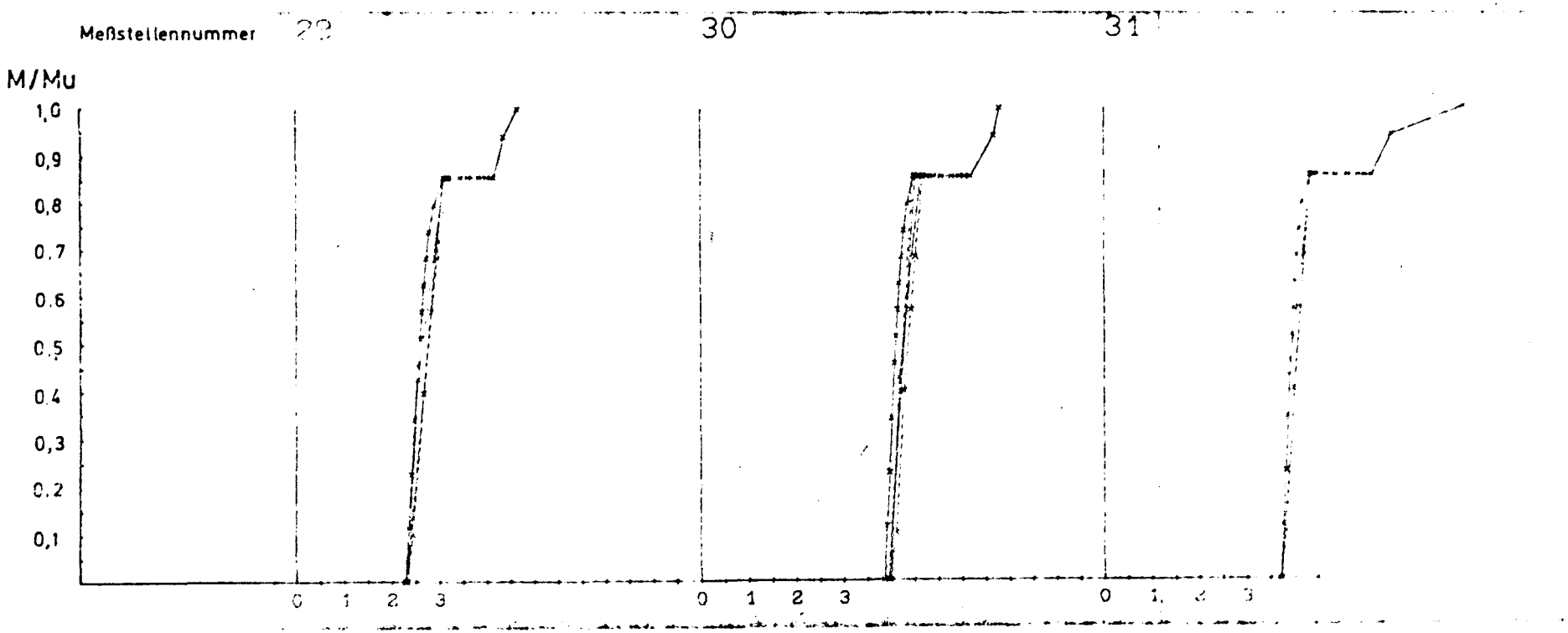
Längsstahldehnungen des Balkens SETMQ 1

Schnitt VII



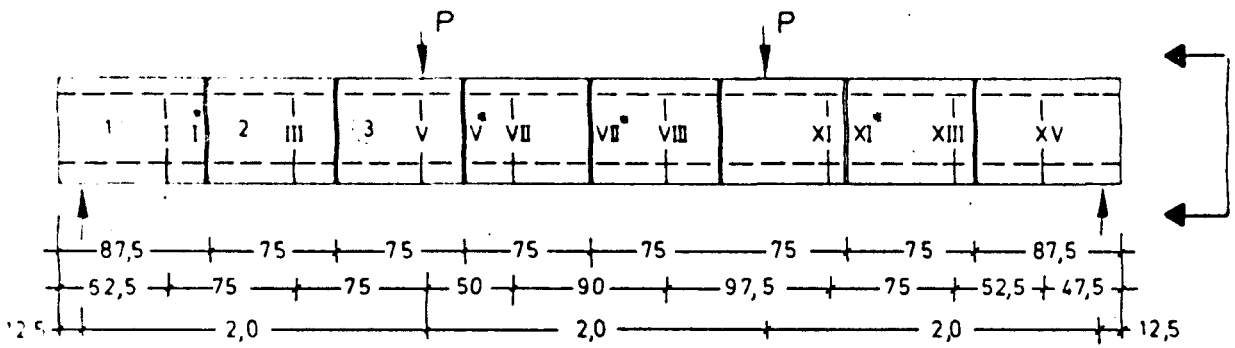


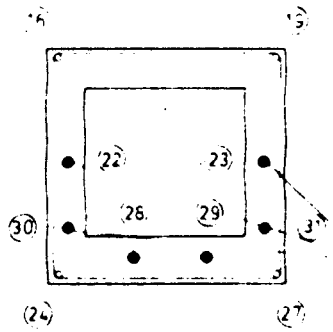
Meßquerschnitt: Meßstellen für Längsbewehrung einschl. Spannglieder



Längsstahldehnungen des Balkens SETMQ 1

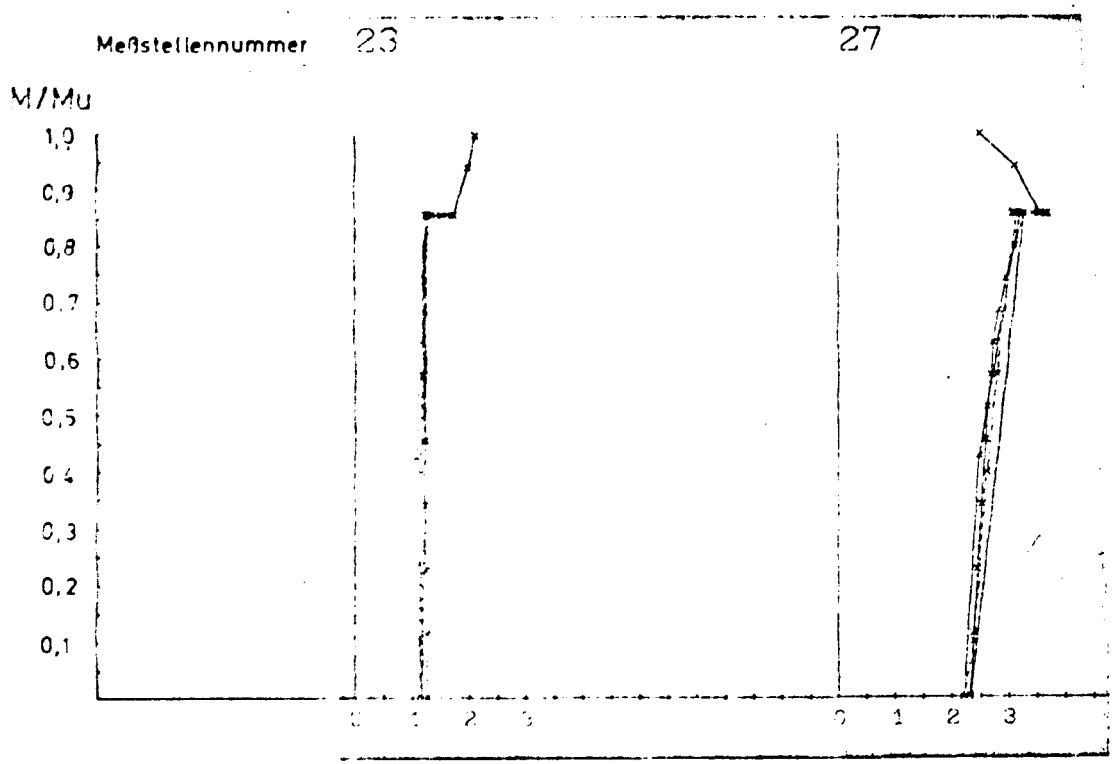
Schnitt VII*





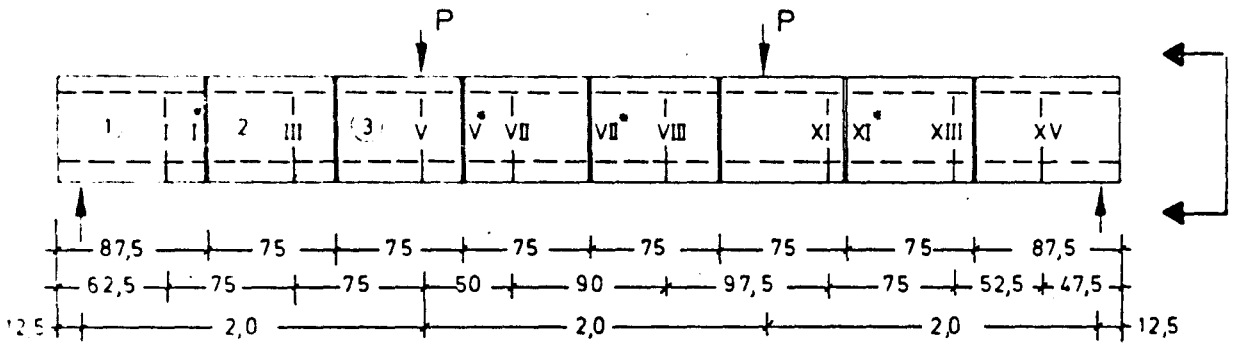
Meßquerschnitt
Meßstellen für
Längsbewehrung
einschl. Spannglie

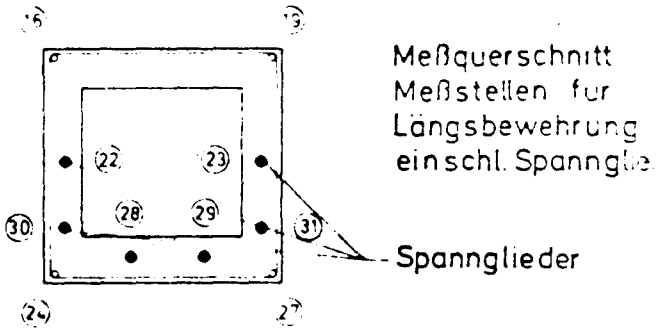
Spannglieder

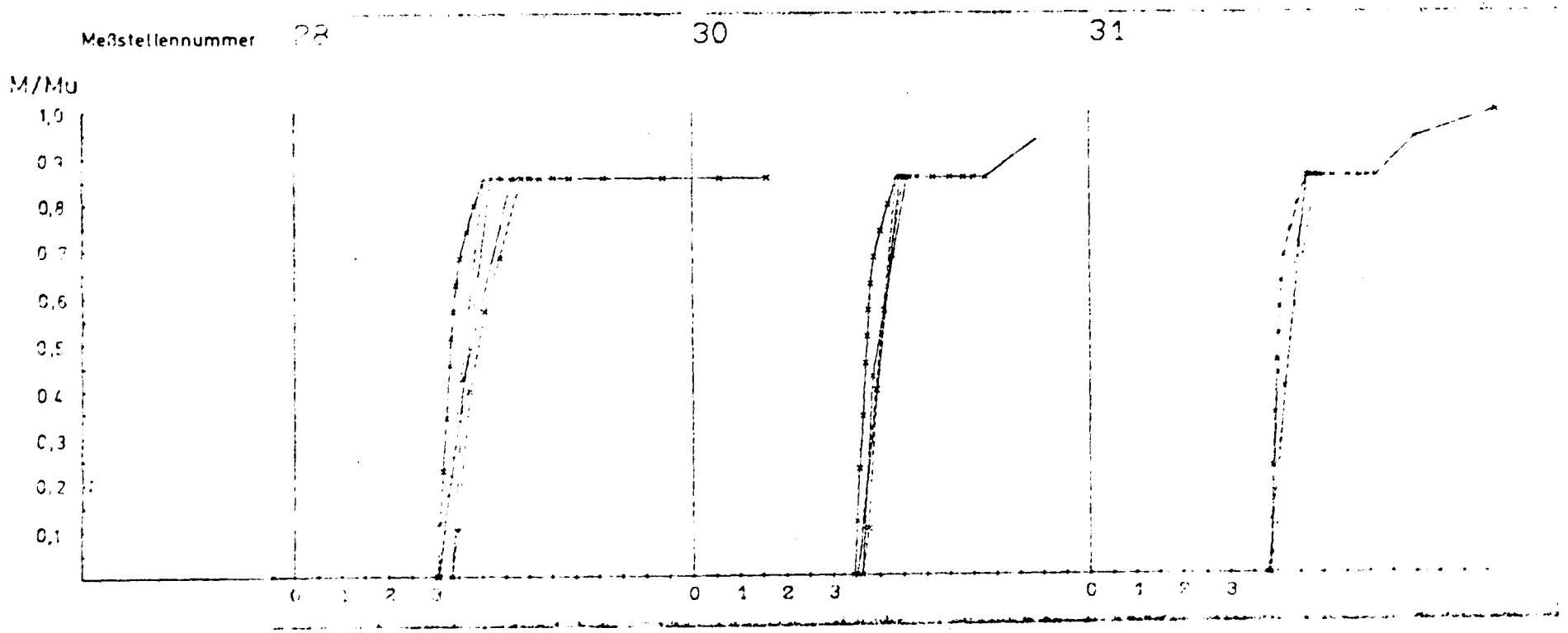


Längsstahldehnungen des Balkens SETMQ 1

Schnitt **VII***

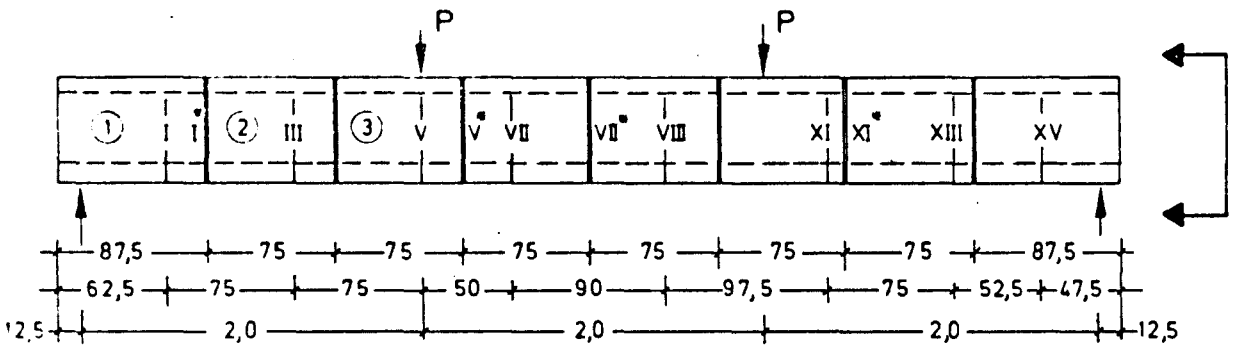


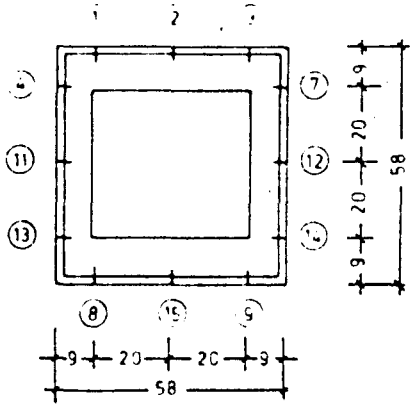




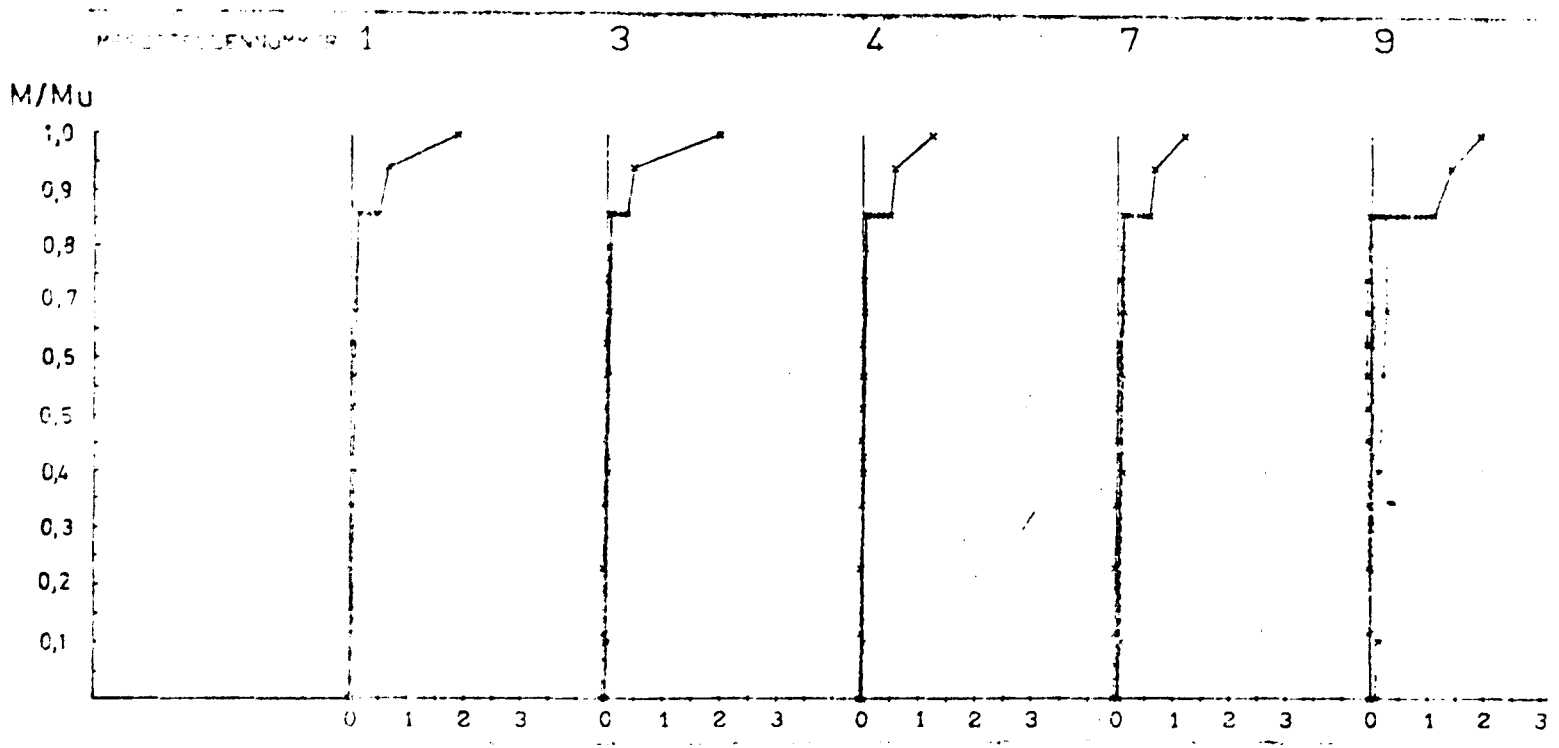
Bügeldehnungen des Balkens SETMQ 1

Schnitt VIII



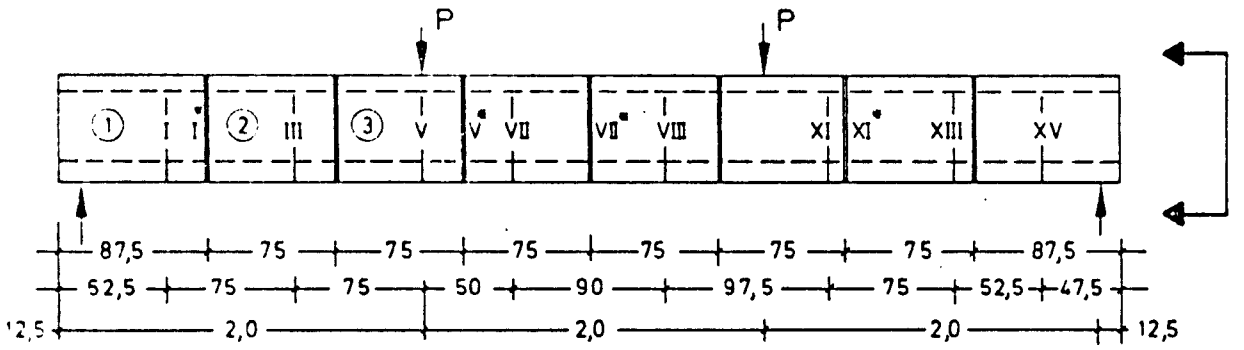


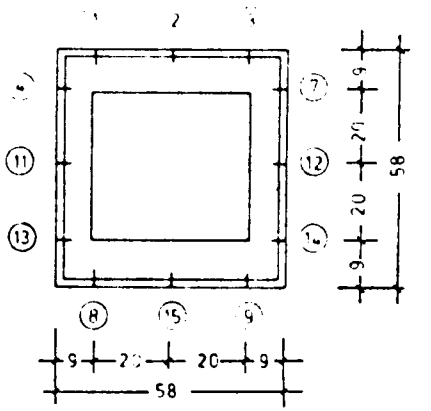
Meßquerschnitt
Meßstellen für
Bügel



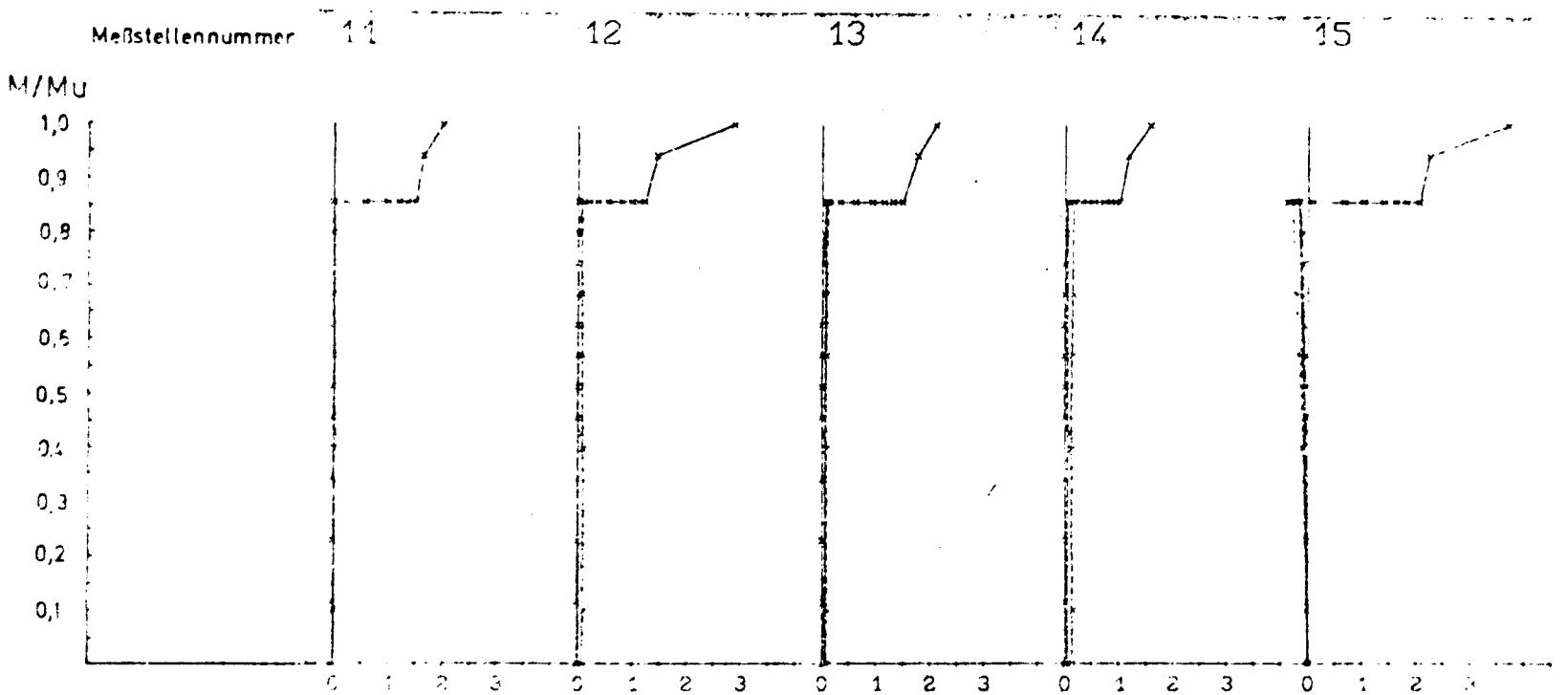
Bügeldehnungen des Balkens SETMQ 1

Schnitt V III



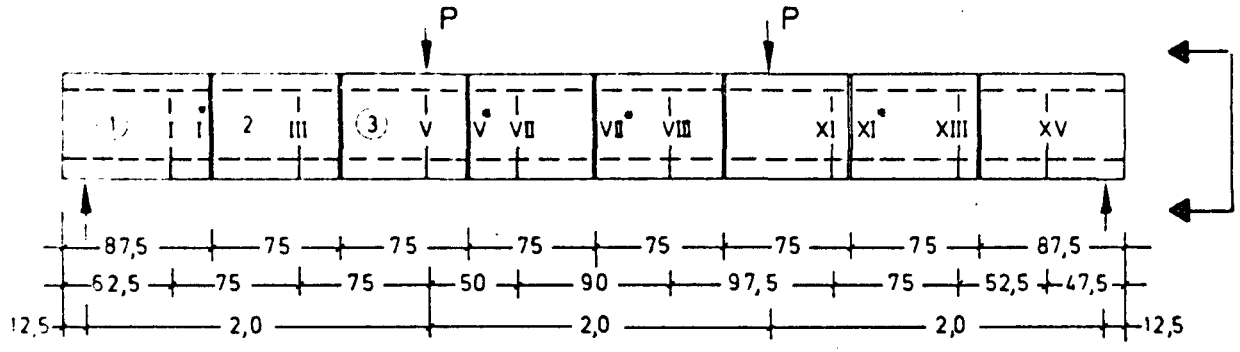


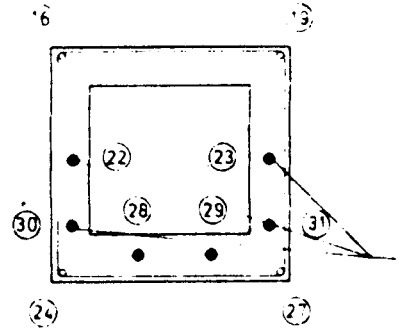
Meßquerschnitt
Meßstellen für
Bügel

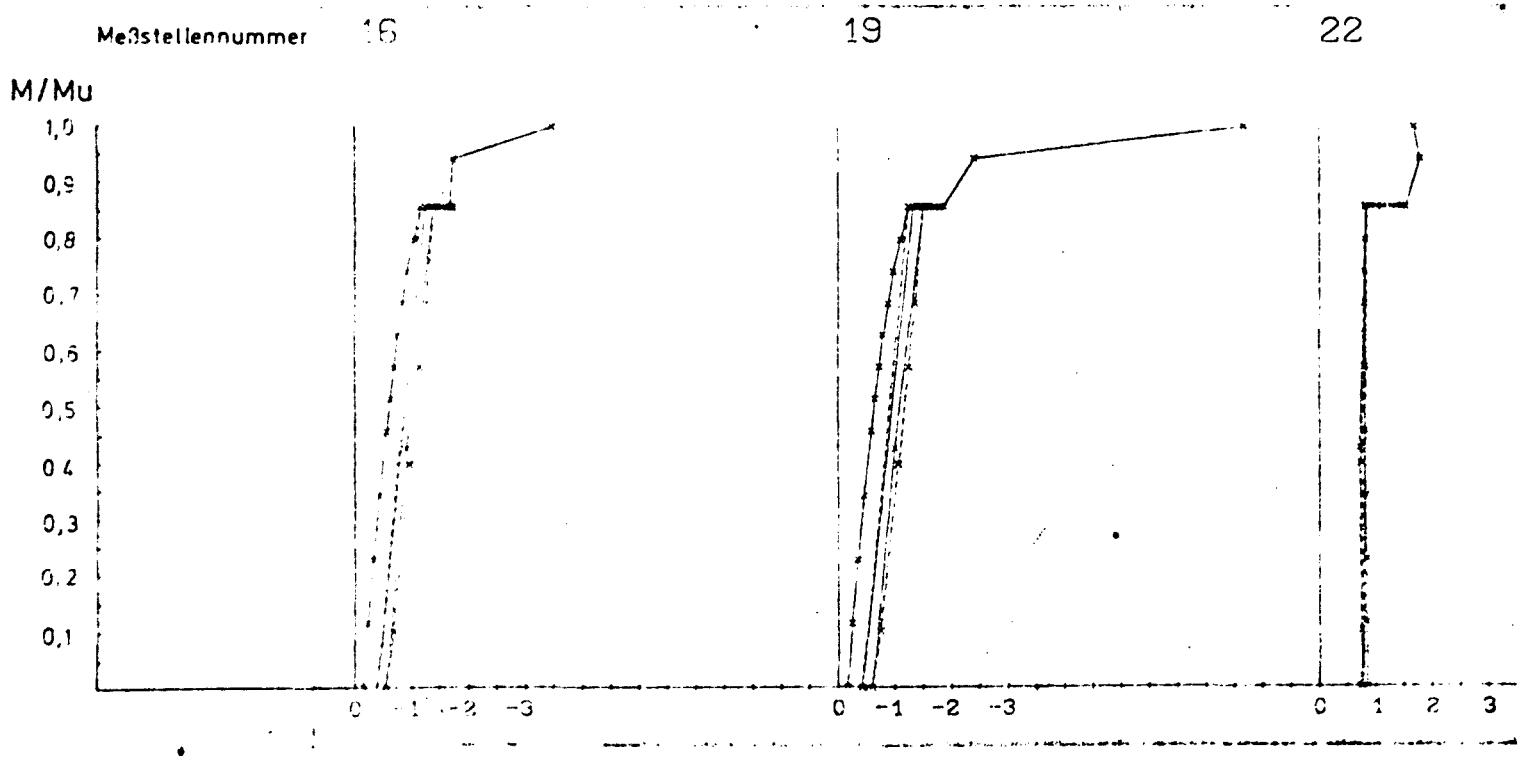


Längsstahldehnungen des Balkens SETMQ 1

Schnitt **V III**

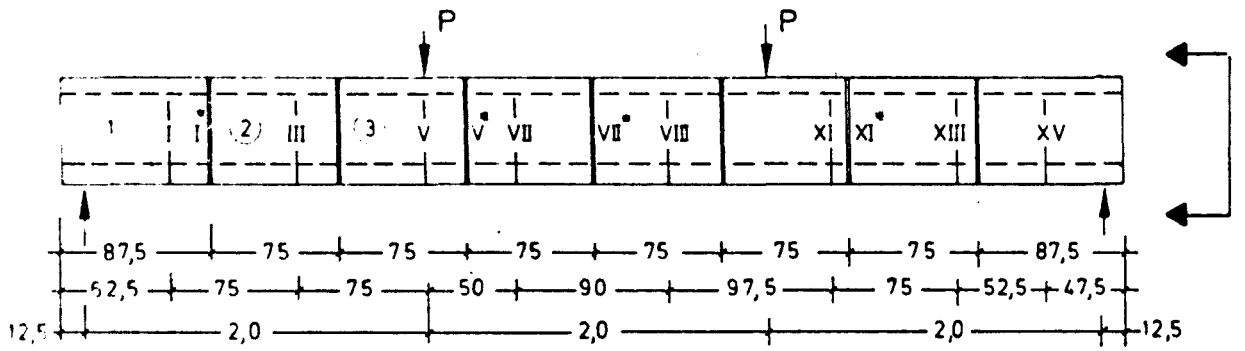


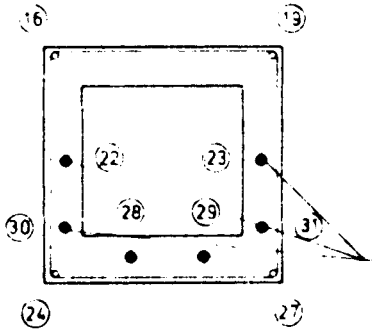


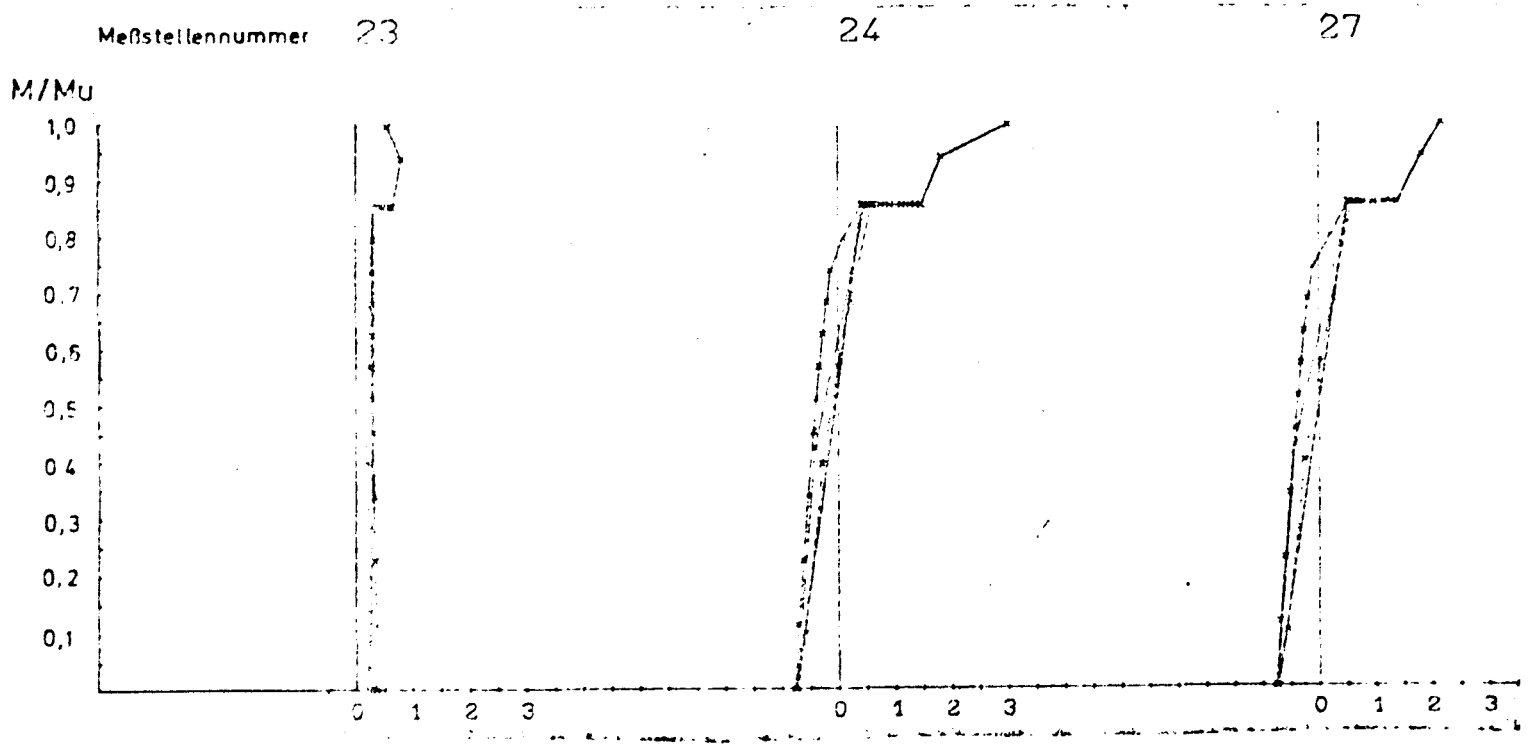


Längsstahldehnungen des Balkens SETMQ 1

Schnitt VIII

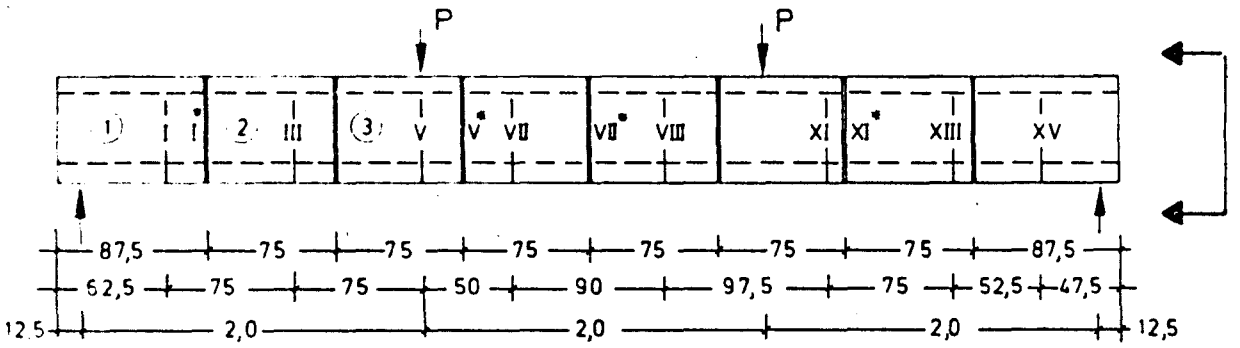


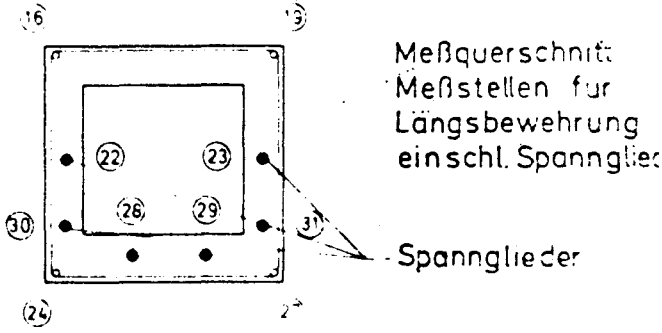


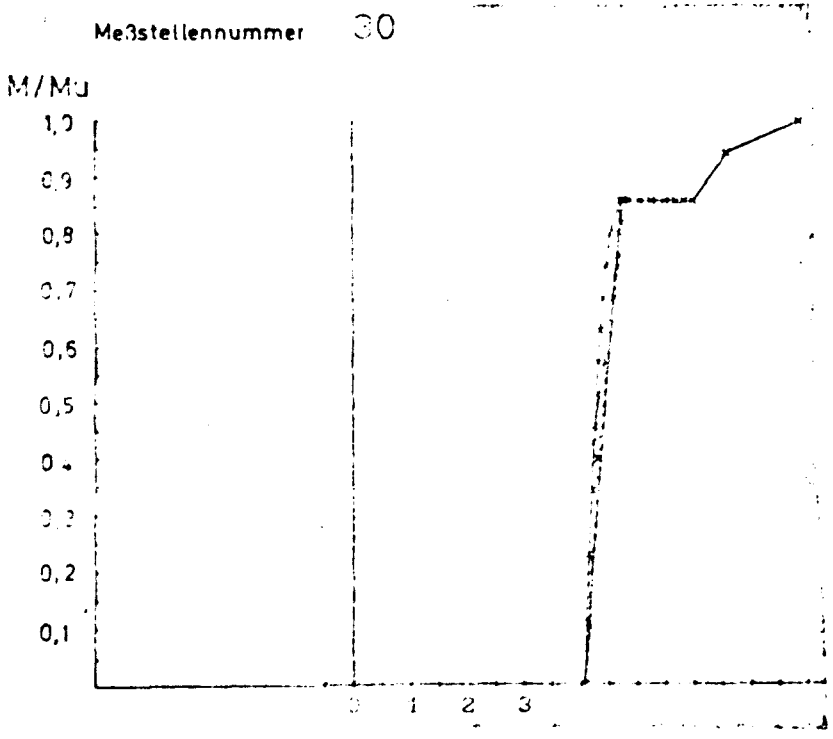


Längsstahldehnungen des Balkens SETMQ 1

Schnitt **V III**

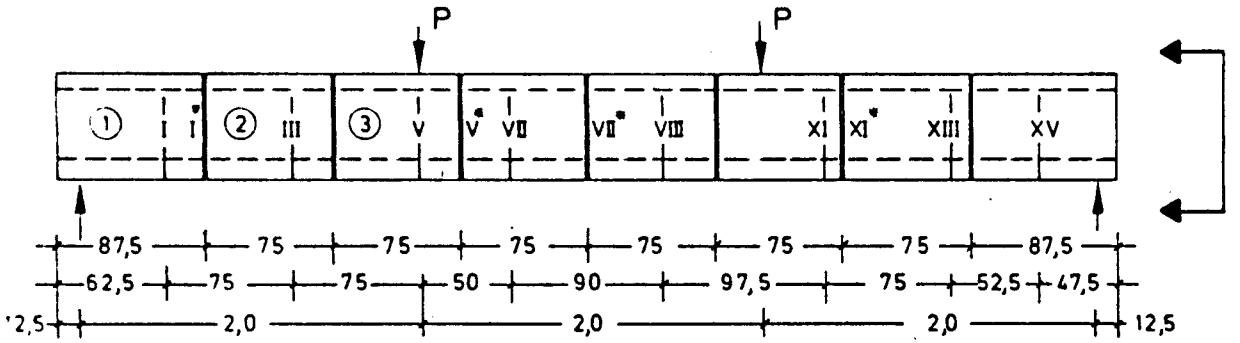


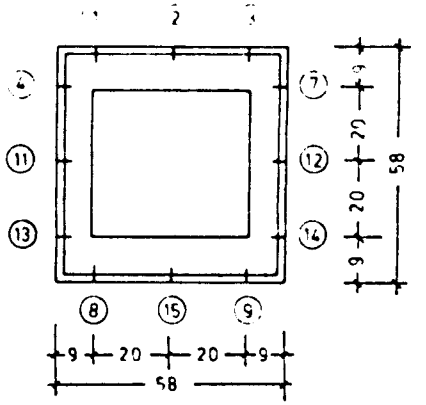




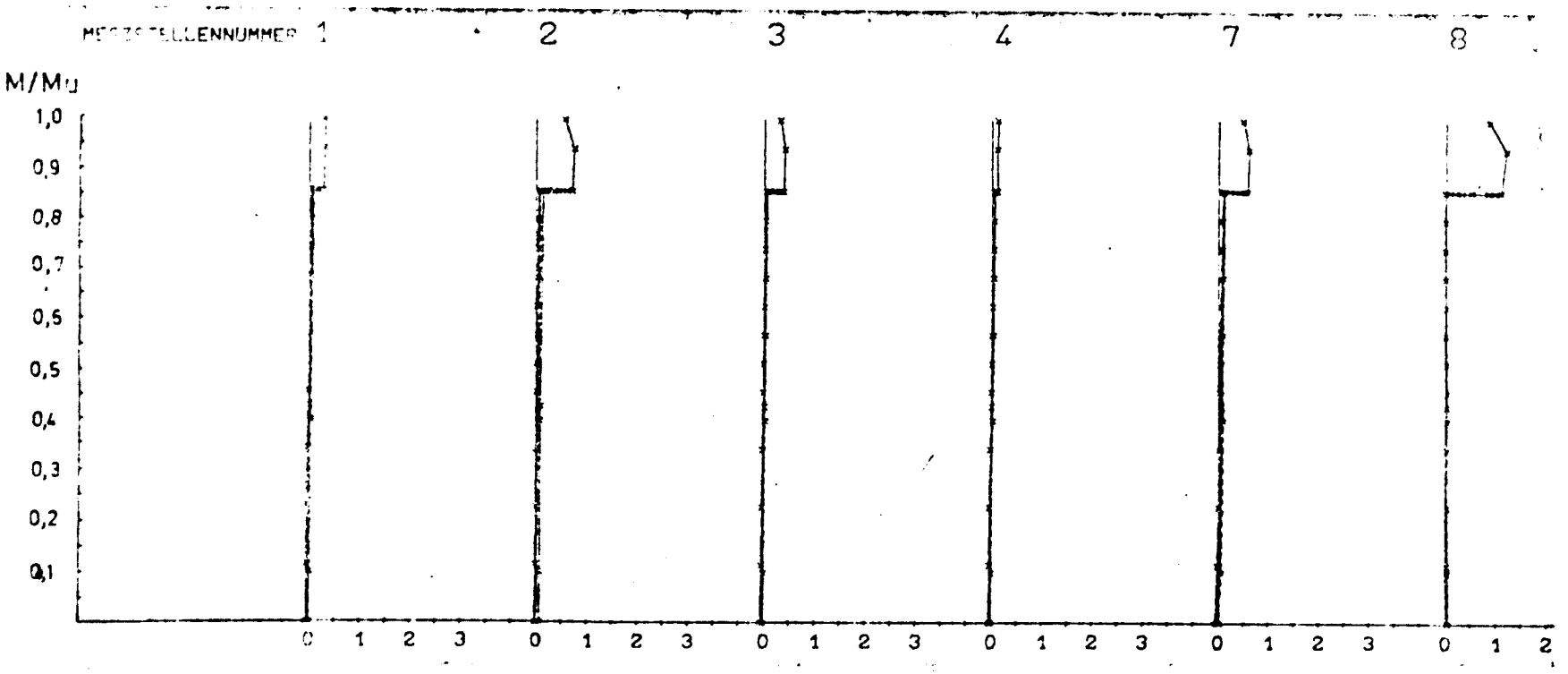
Bügeldehnungen des Balkens SETMQ 1

Schnitt X I



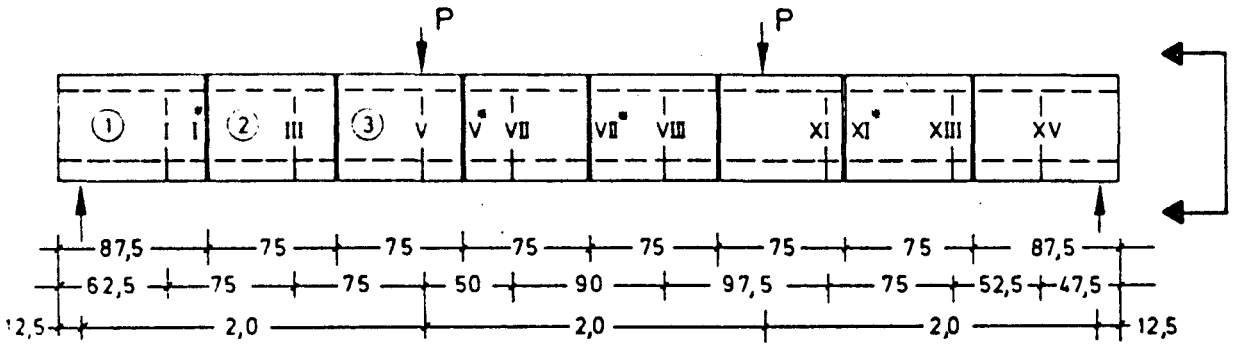


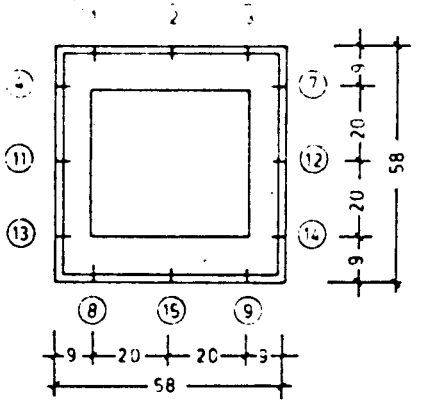
Meßquerschnitt
Meßstellen für
Bügel



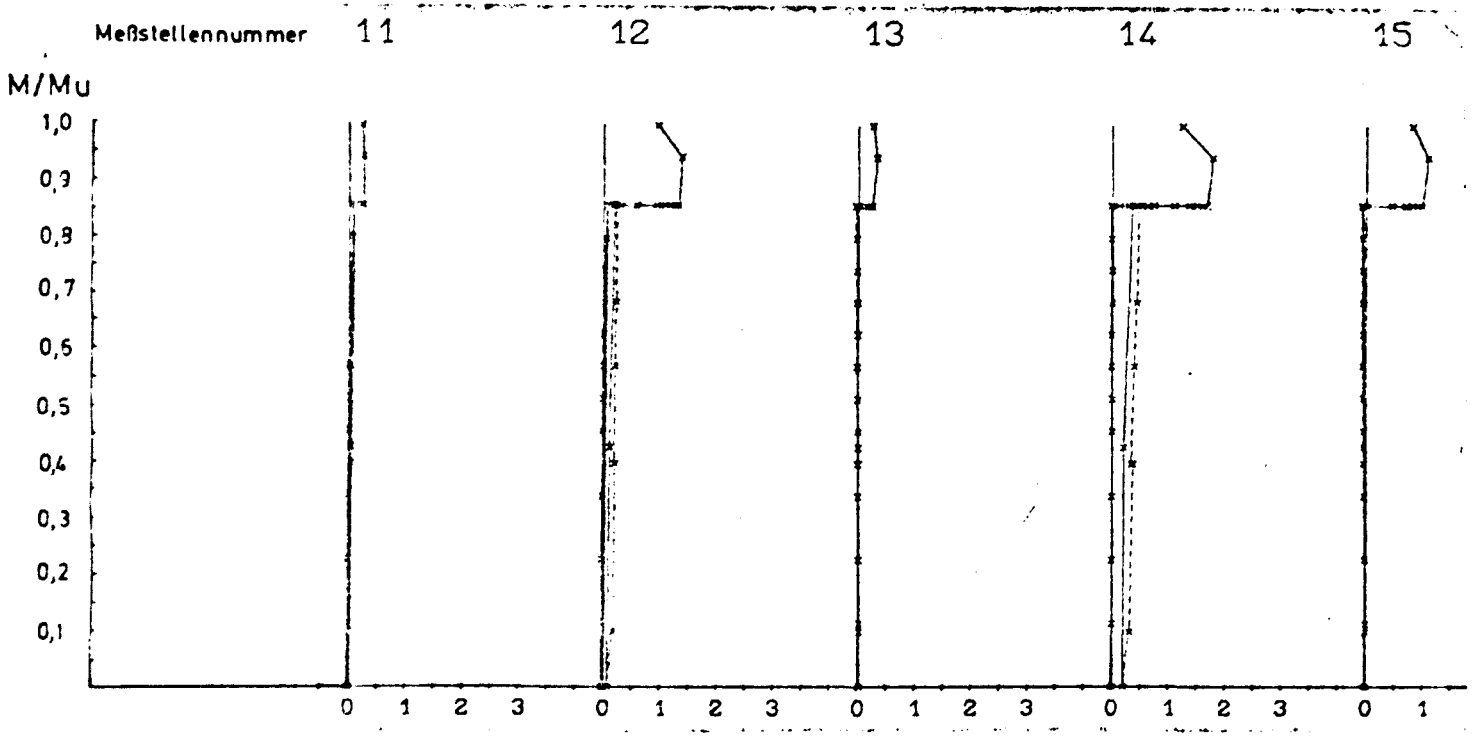
Bügeldehnungen des Balkens SETMQ 1

Schnitt XI



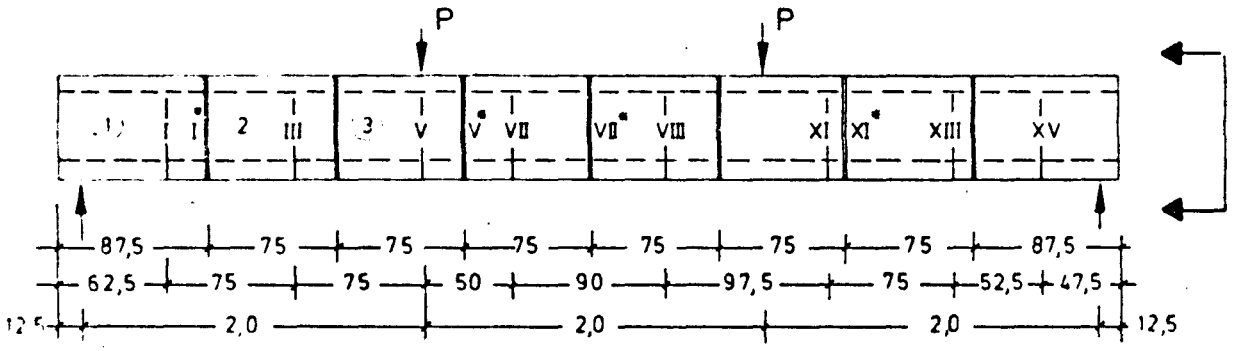


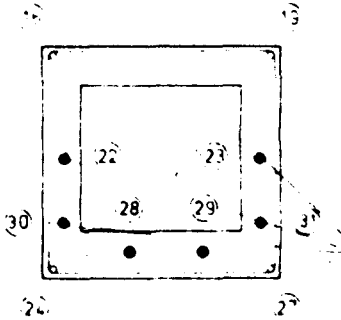
Meßquerschnitt
Meßstellen für
Bügel



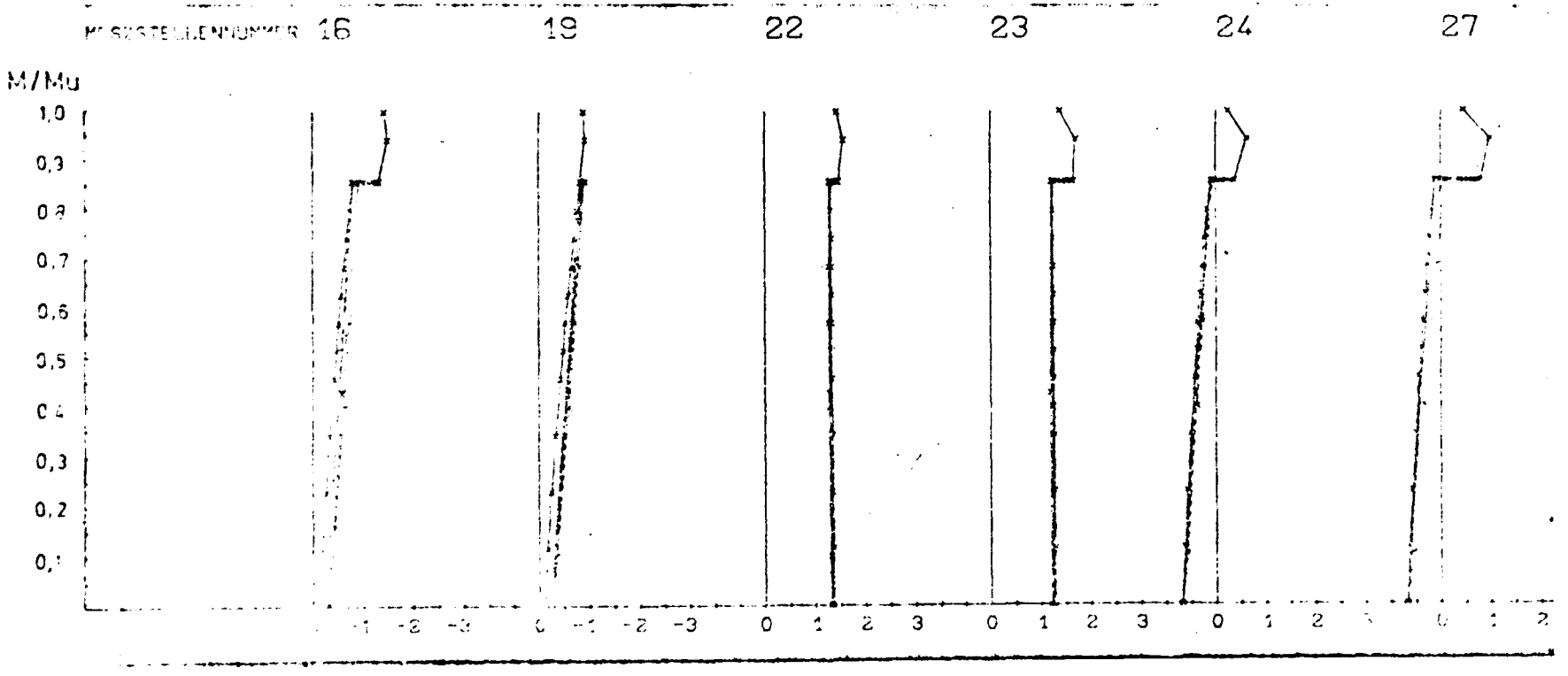
Längsstahldehnungen des Balkens SETMQ 1

Schnitt **XI**



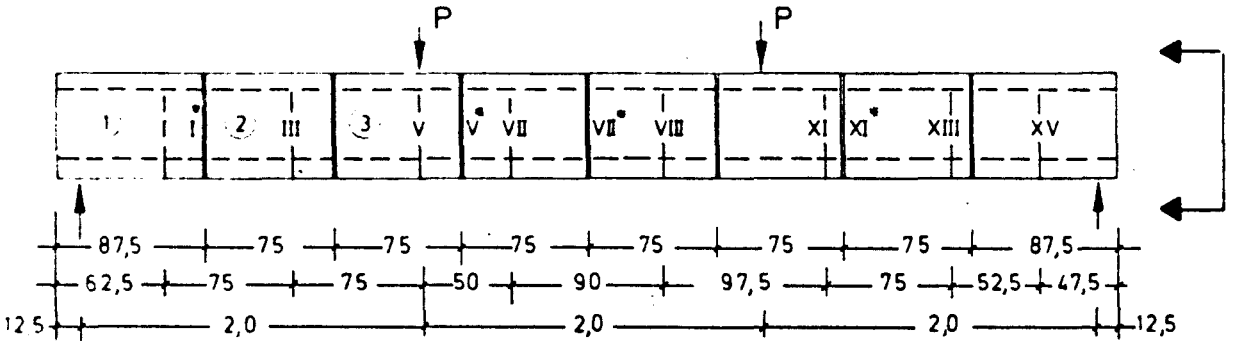


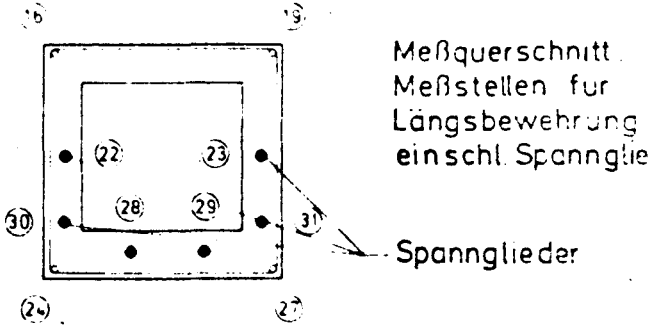
Meßquerschnitt
Meßstellen für
Längsbewehrung
einschl. Spannglie

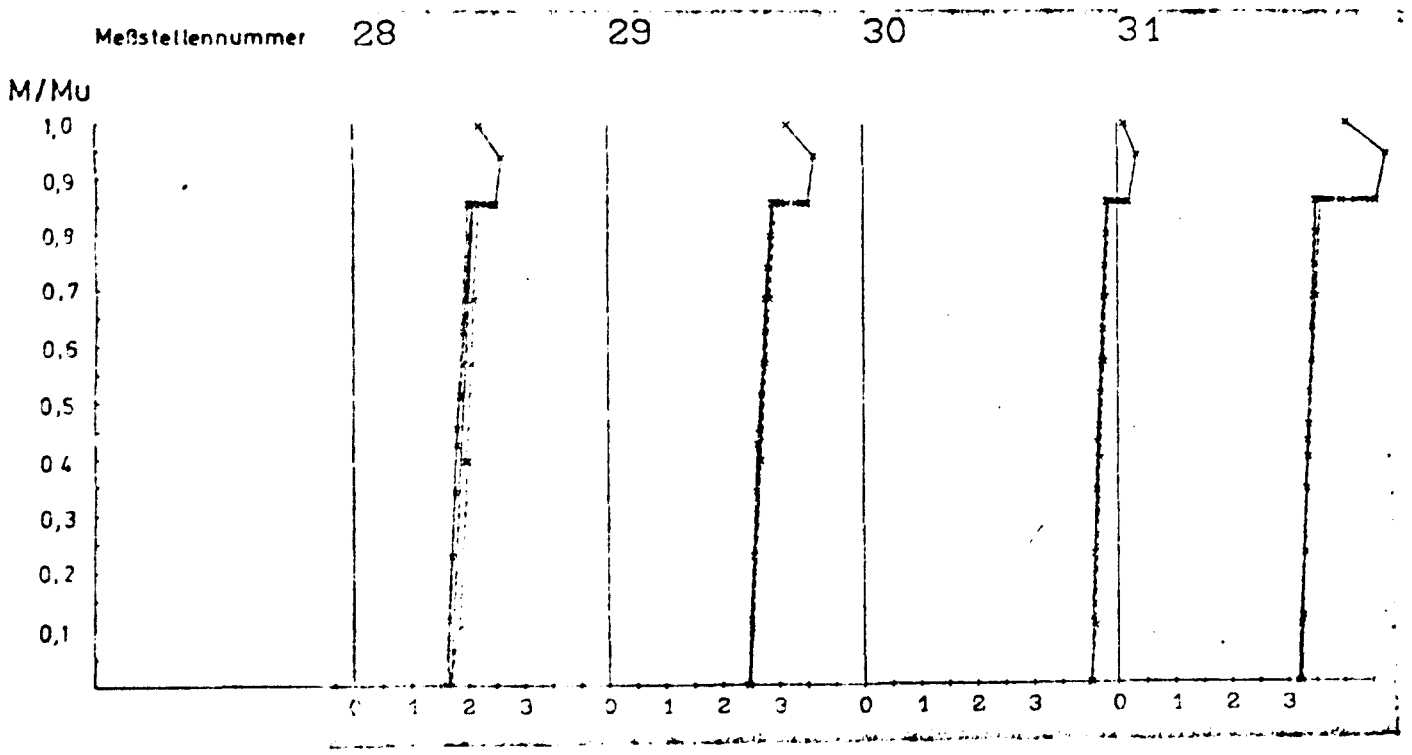


Längsstahldehnungen des Balkens SETMQ 1

Schnitt XI

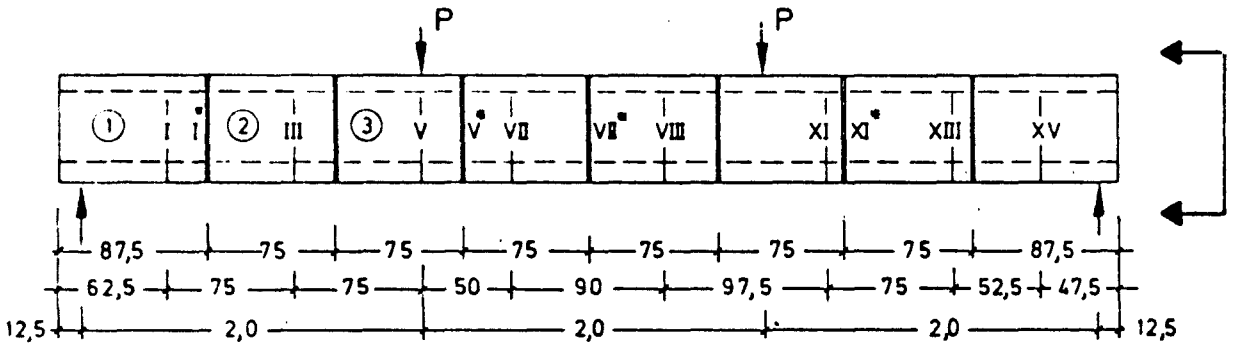


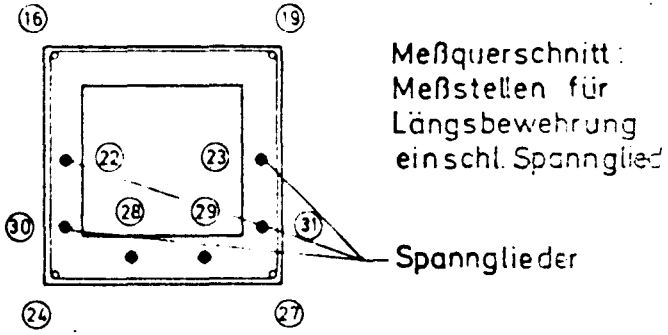


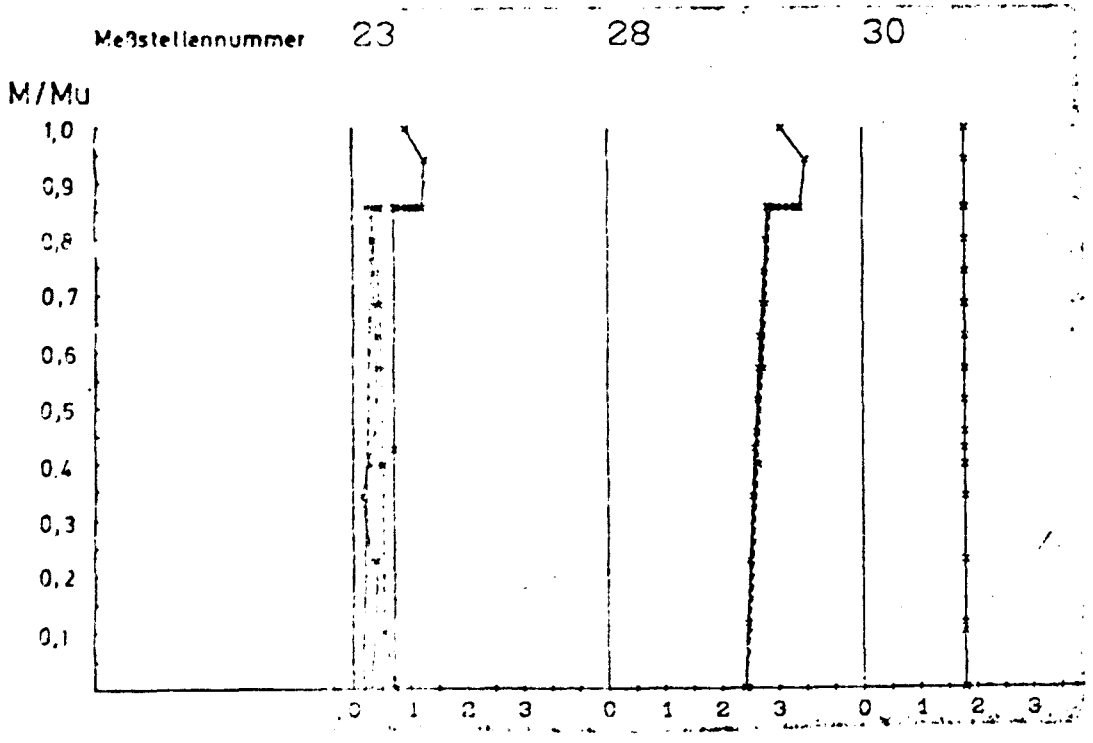


Längsstahldehnungen des Balkens SETMQ 1

Schnitt XI *

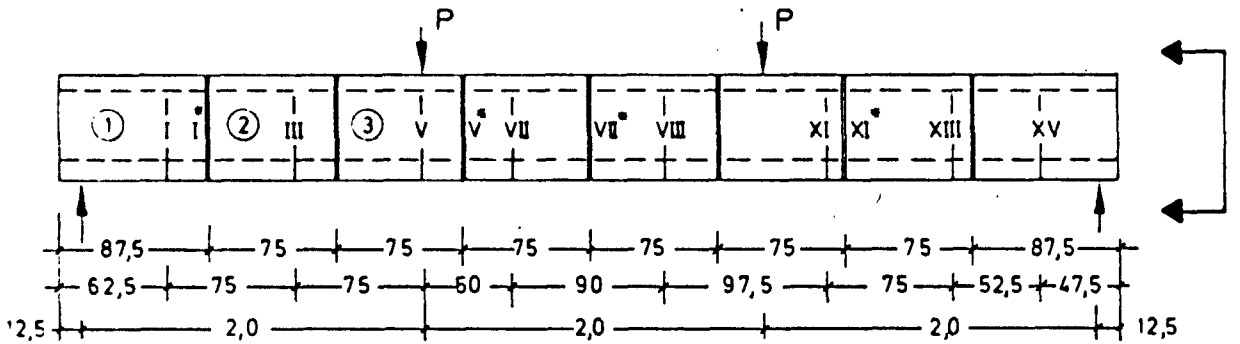


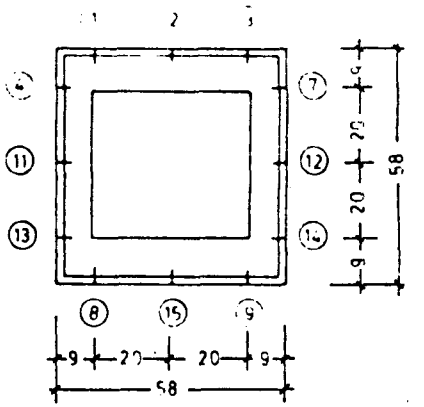




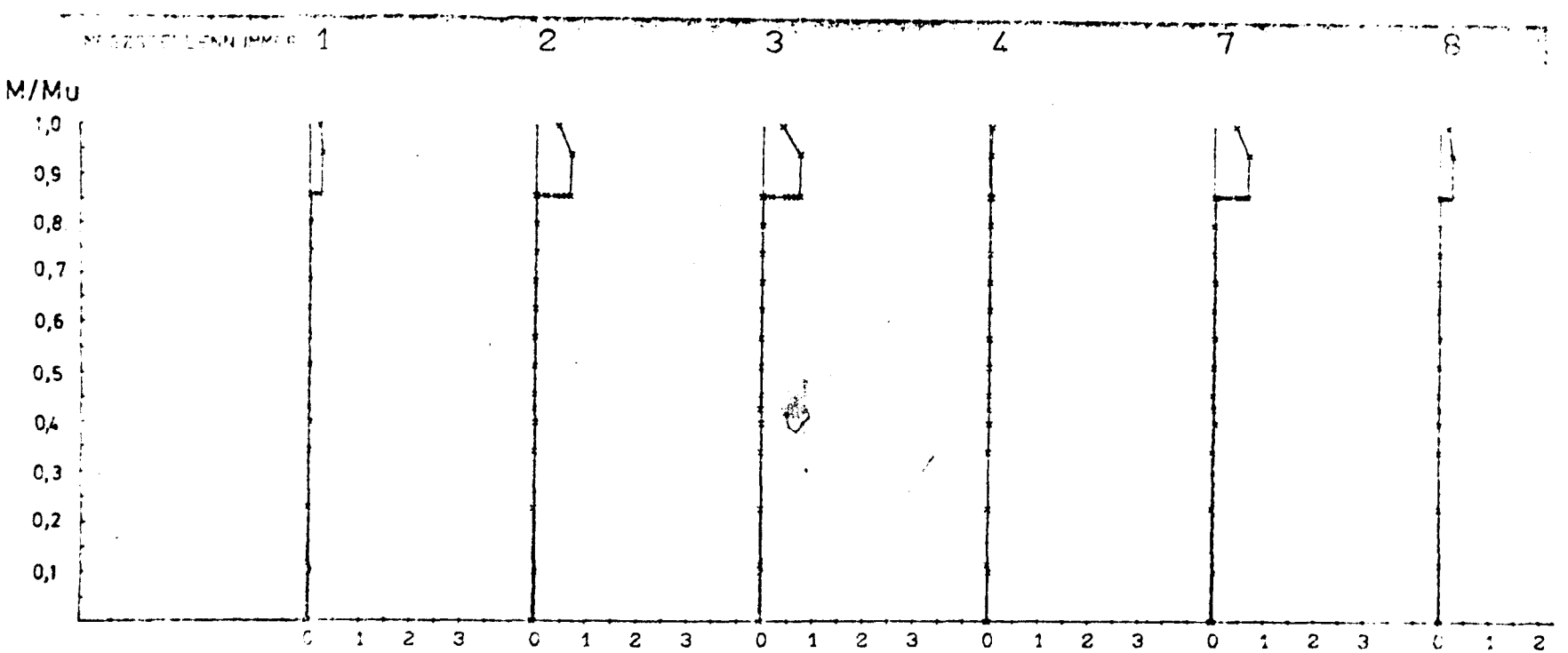
Bügeldehnungen des Balkens SETMQ 1

Schnitt XIII



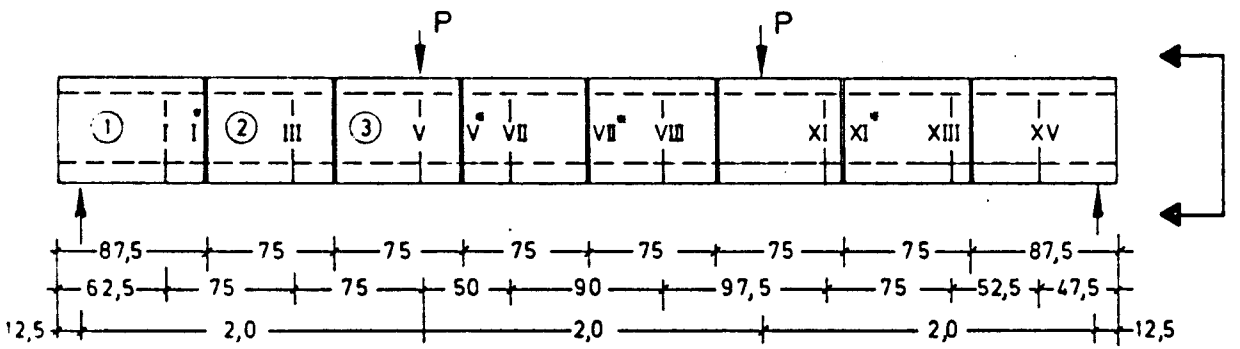


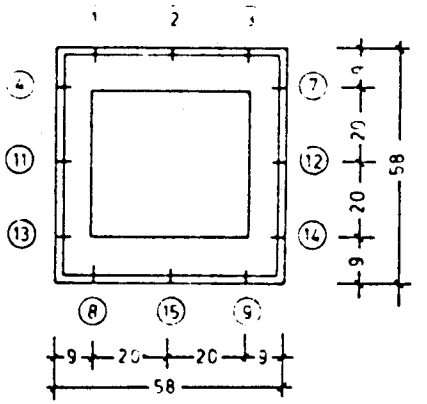
Meßquerschnitt
Meßstellen für
Bügel



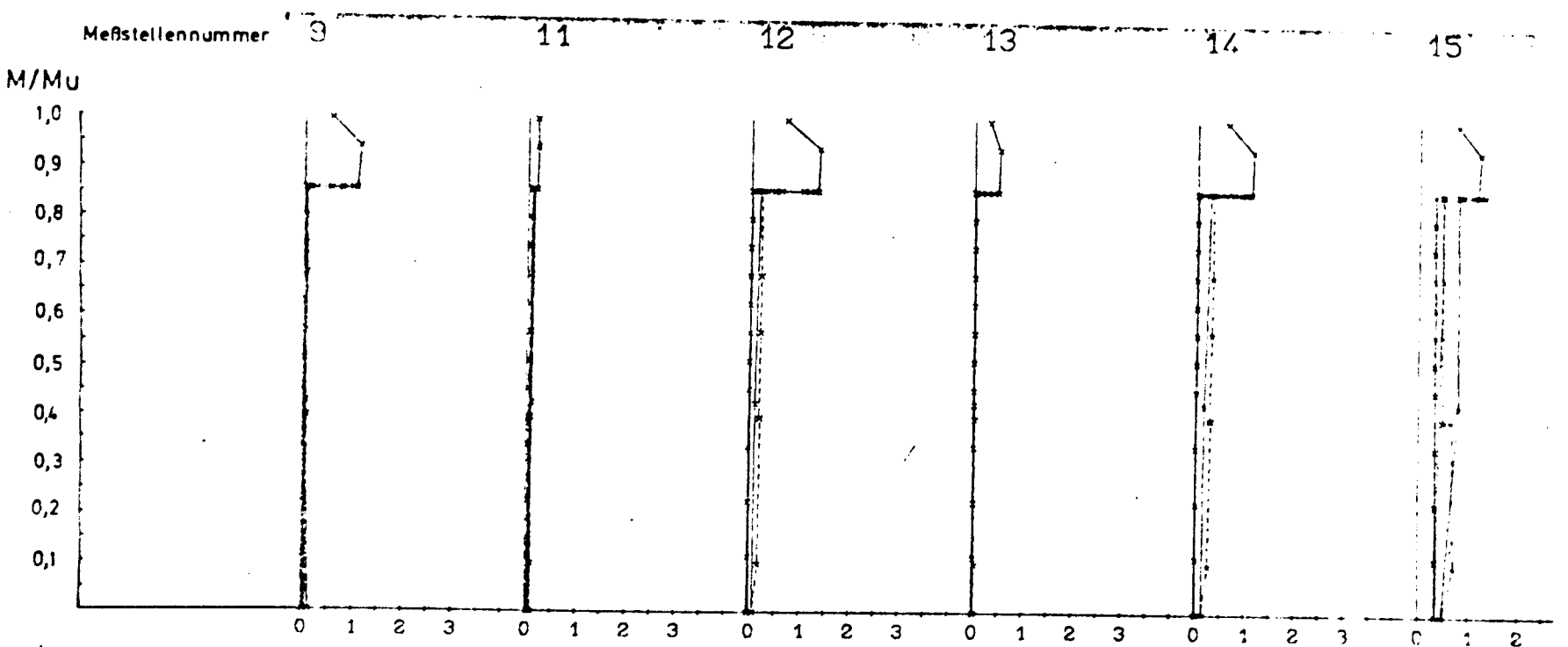
Bügeldehnungen des Balkens SETMQ 1

Schnitt XIII



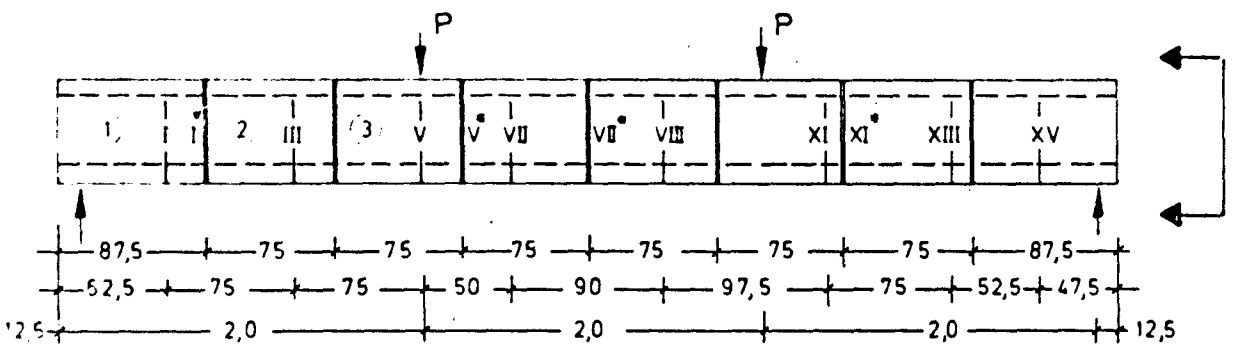


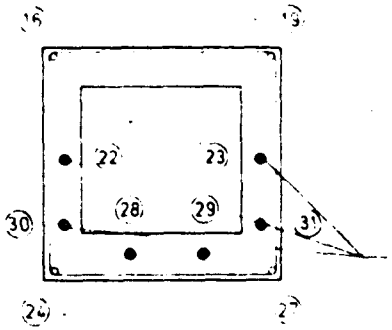
Meßquerschnitt
Meßstellen für
Bügel



Längsstahldehnungen des Balkens SETMQ 1

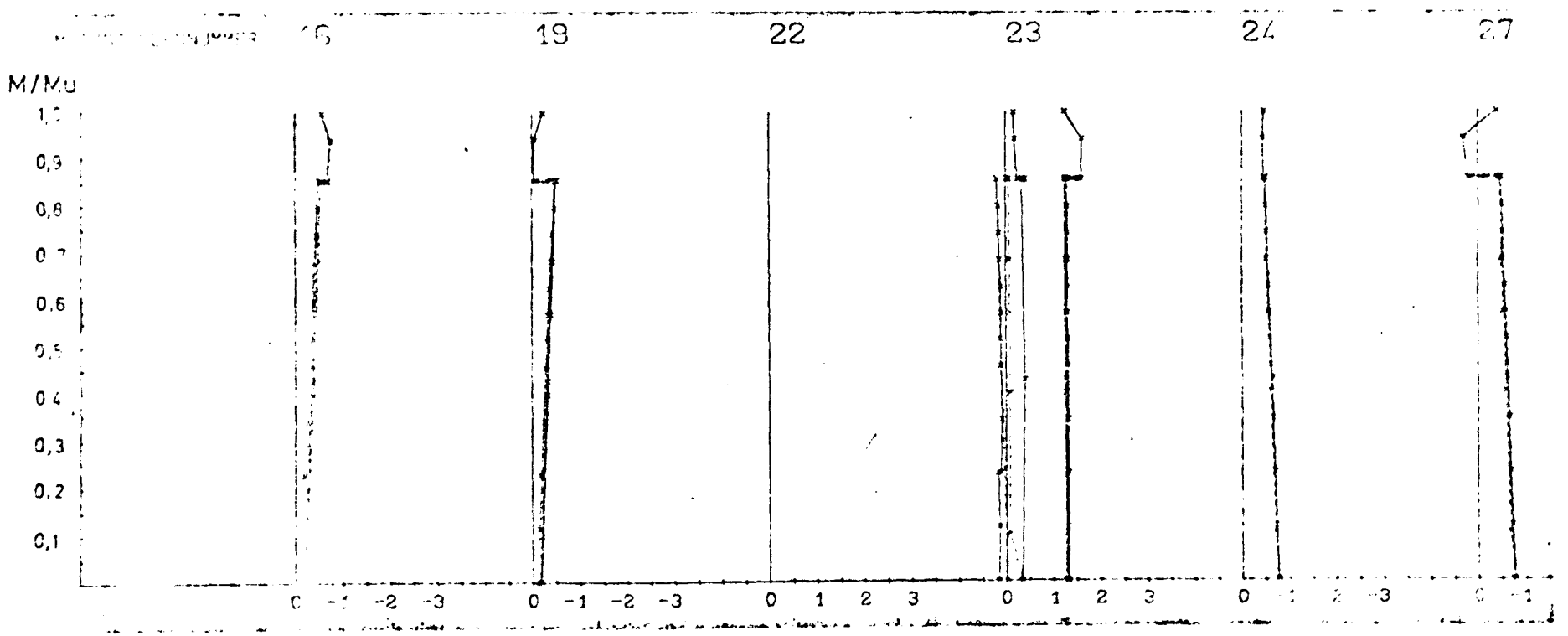
Schnitt XIII





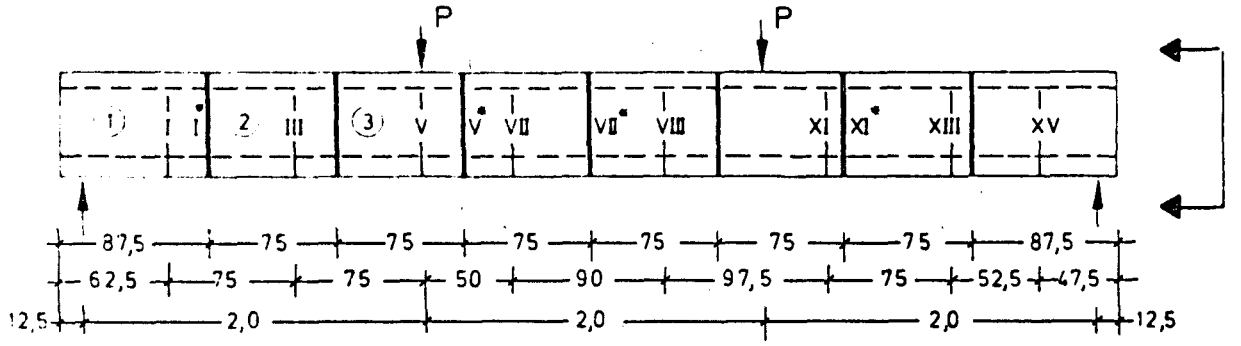
Meßquerschnitt
Meßstellen für
Längsbewehrung
einschl. Spannglie

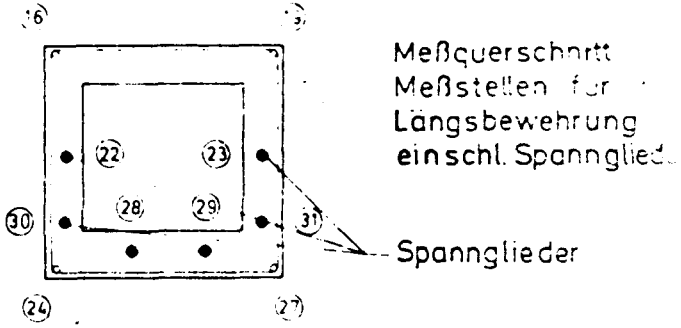
Spannglieder

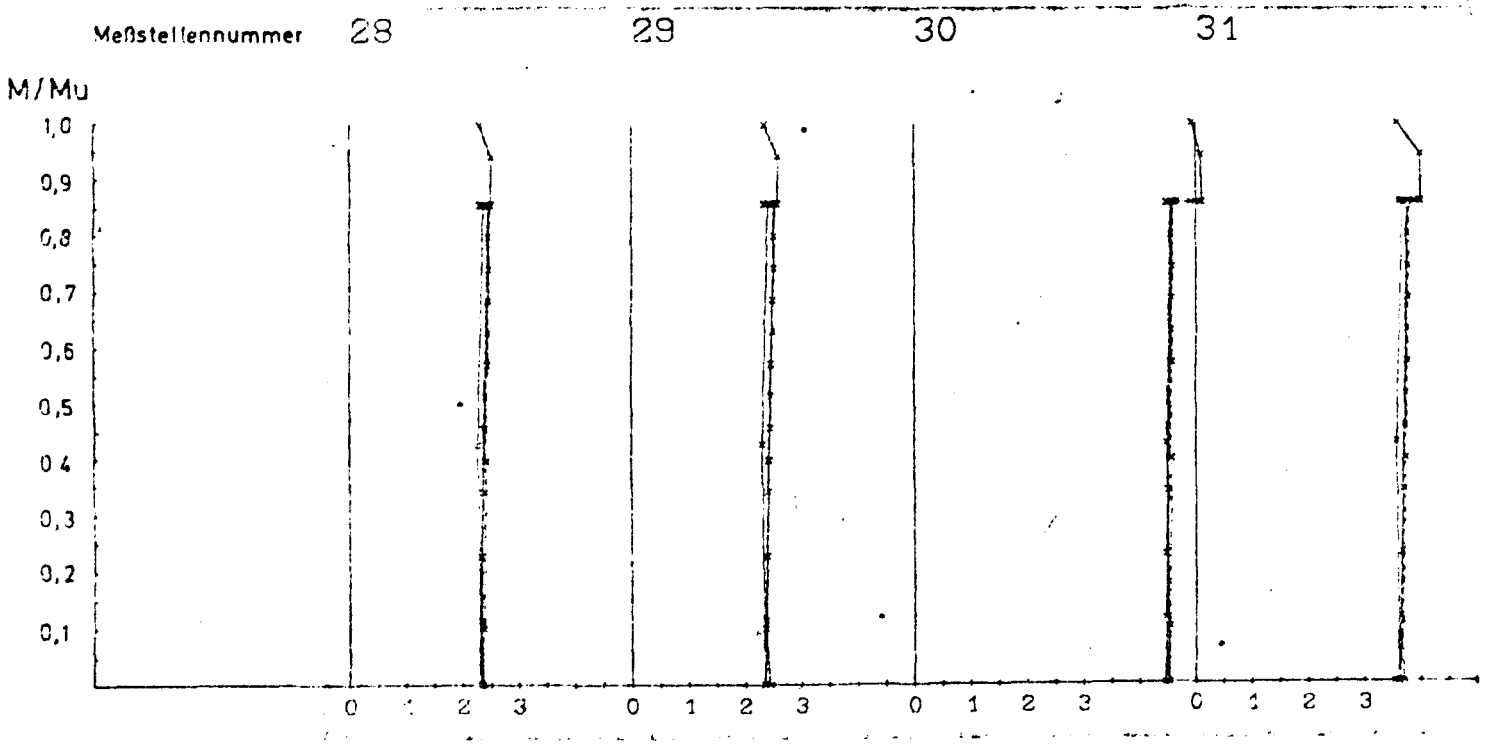


Längsstahldehnungen des Balkens SETMQ 1

Schnitt X III

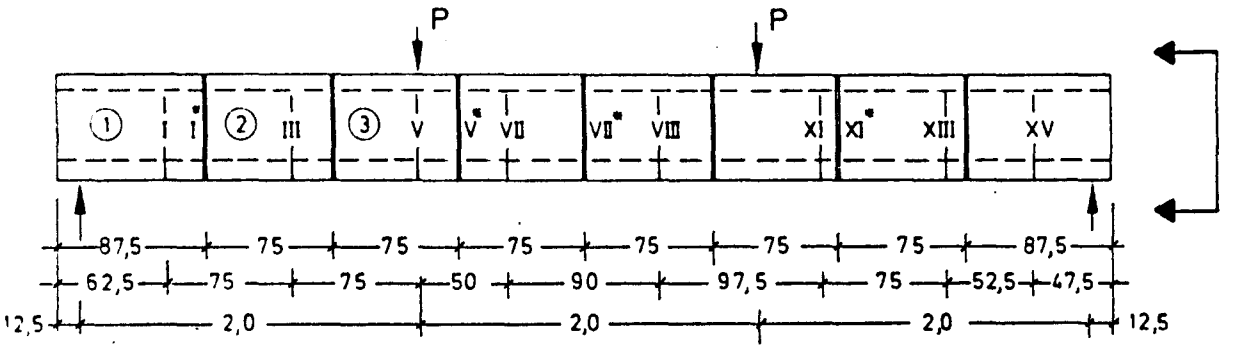


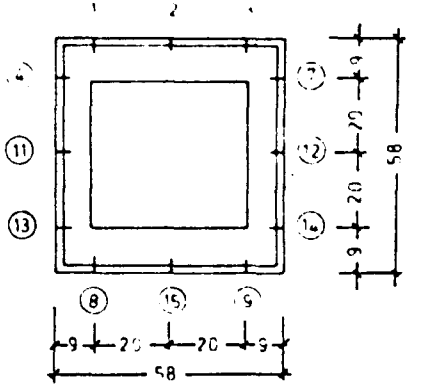




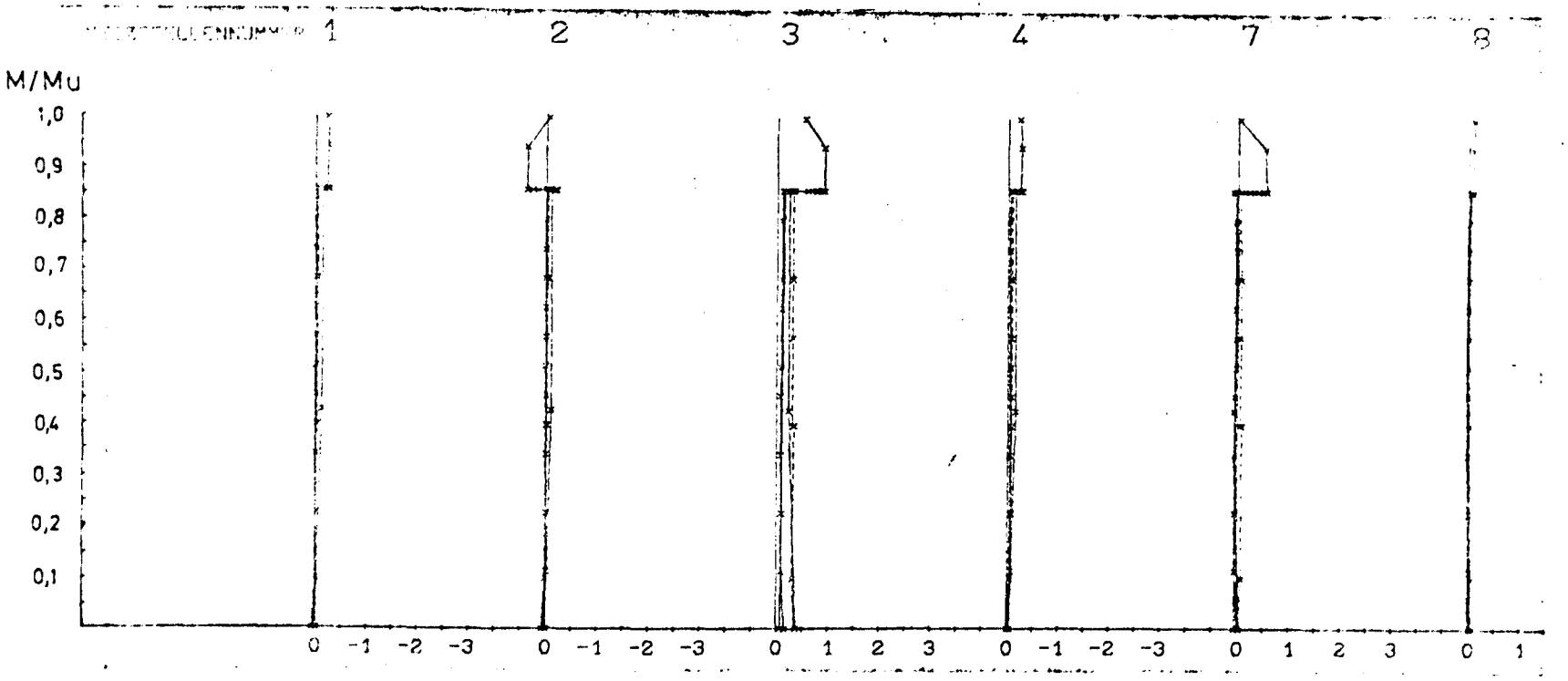
Bügeldehnungen des Balkens SETMQ 1

Schnitt XV



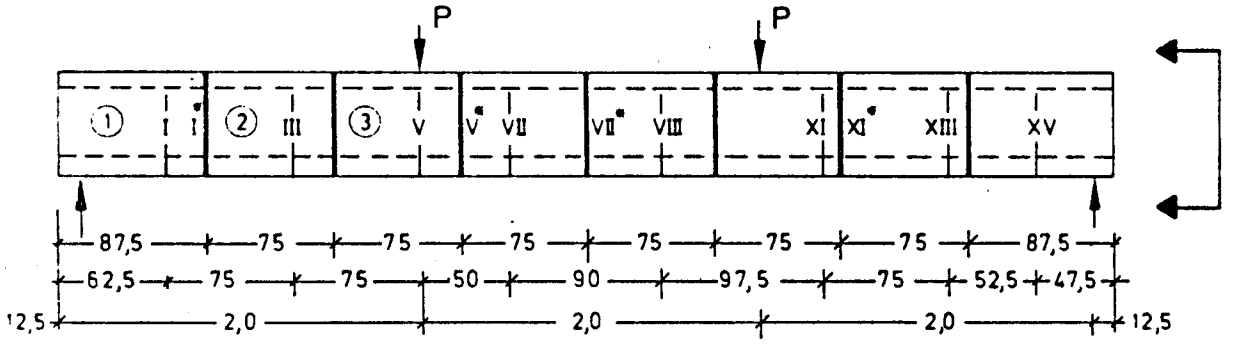


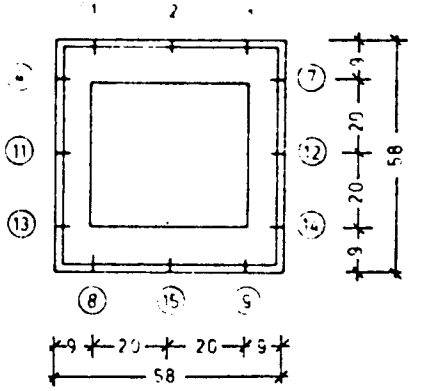
Meßquerschnitt
Meßstellen fur
Bugel



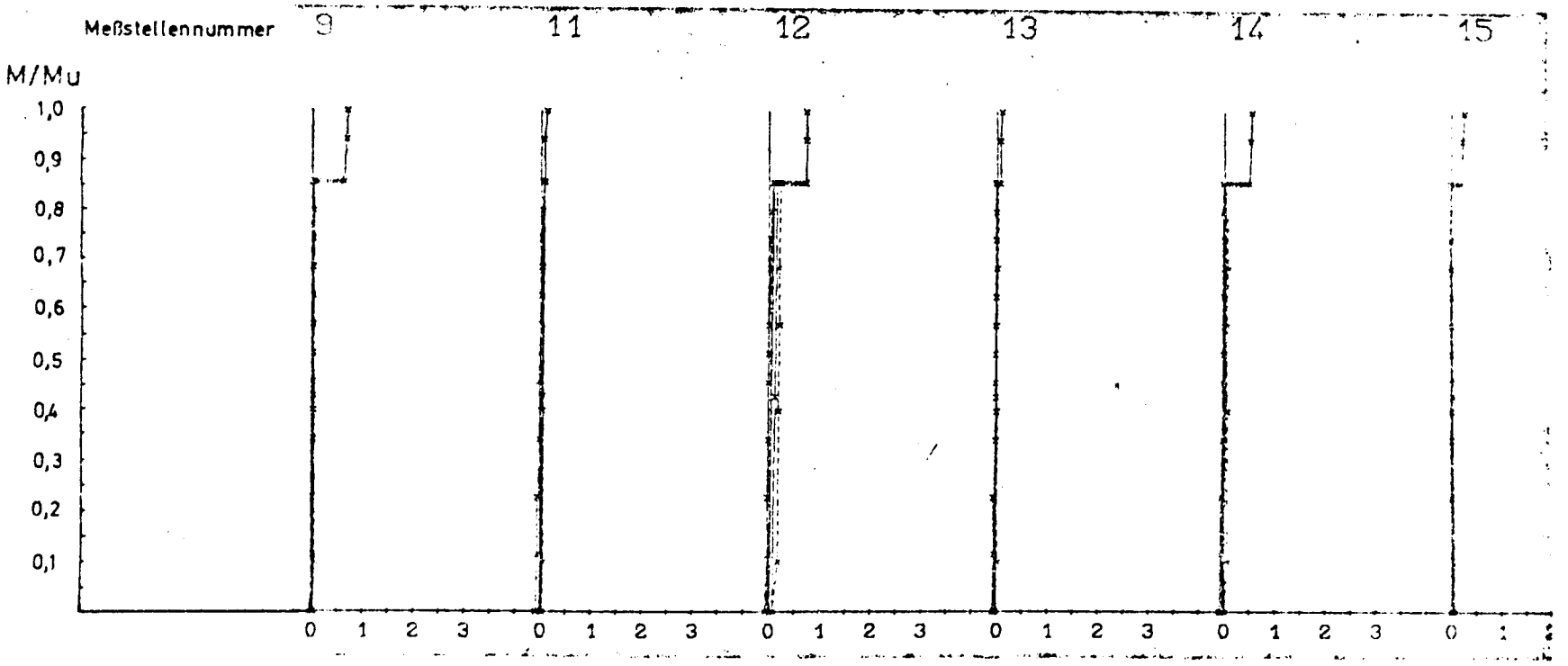
Bügeldehnungen des Balkens SETMQ 1

Schnitt XV



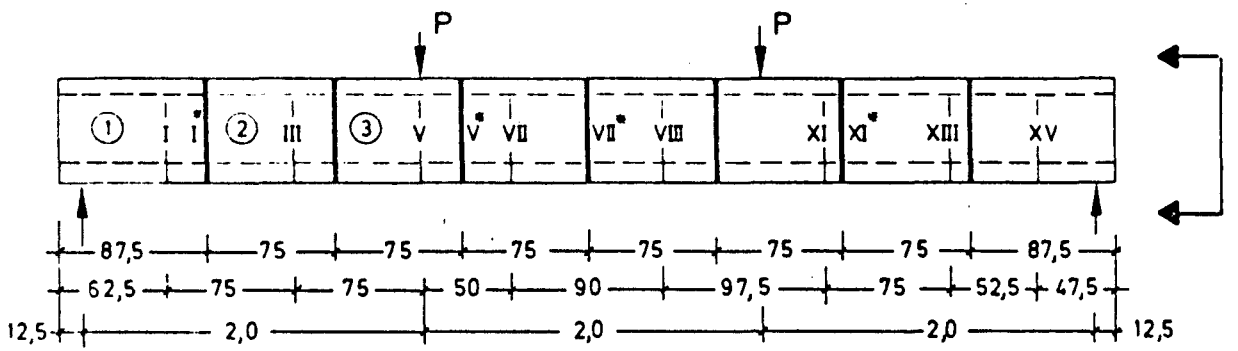


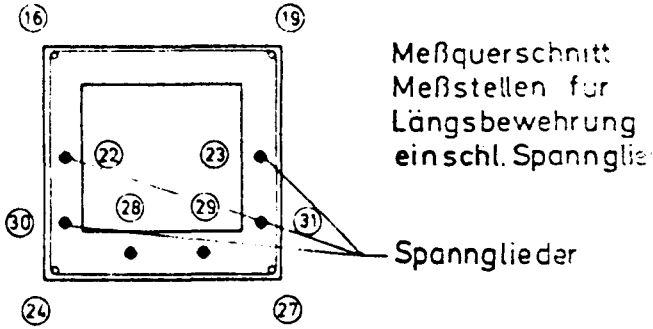
Meßquerschnitt
Meßstellen für
Bügel

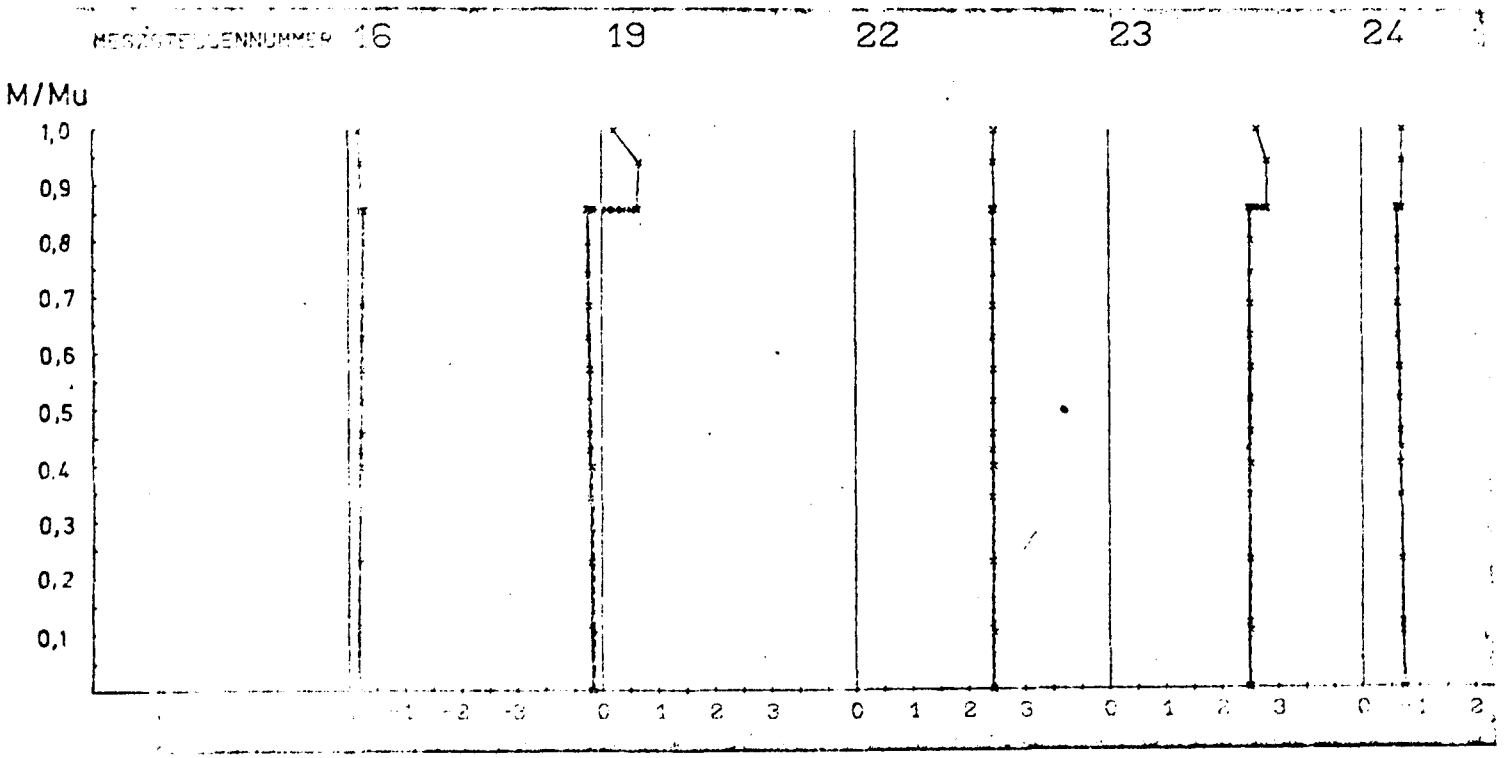


Längsstahldehnungen des Balkens SETMQ 1

Schnitt XV

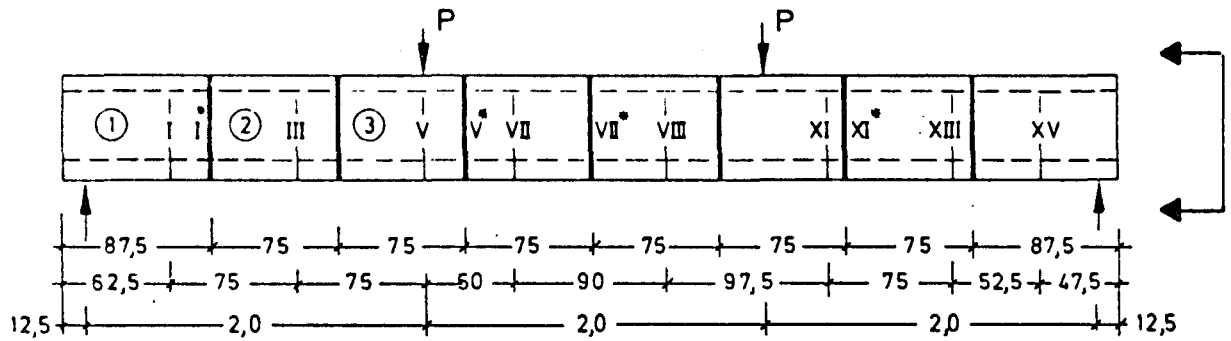


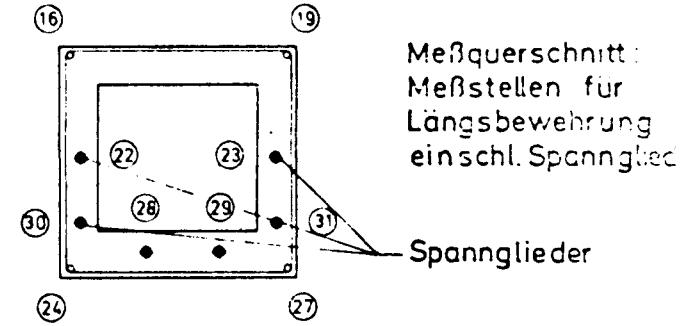


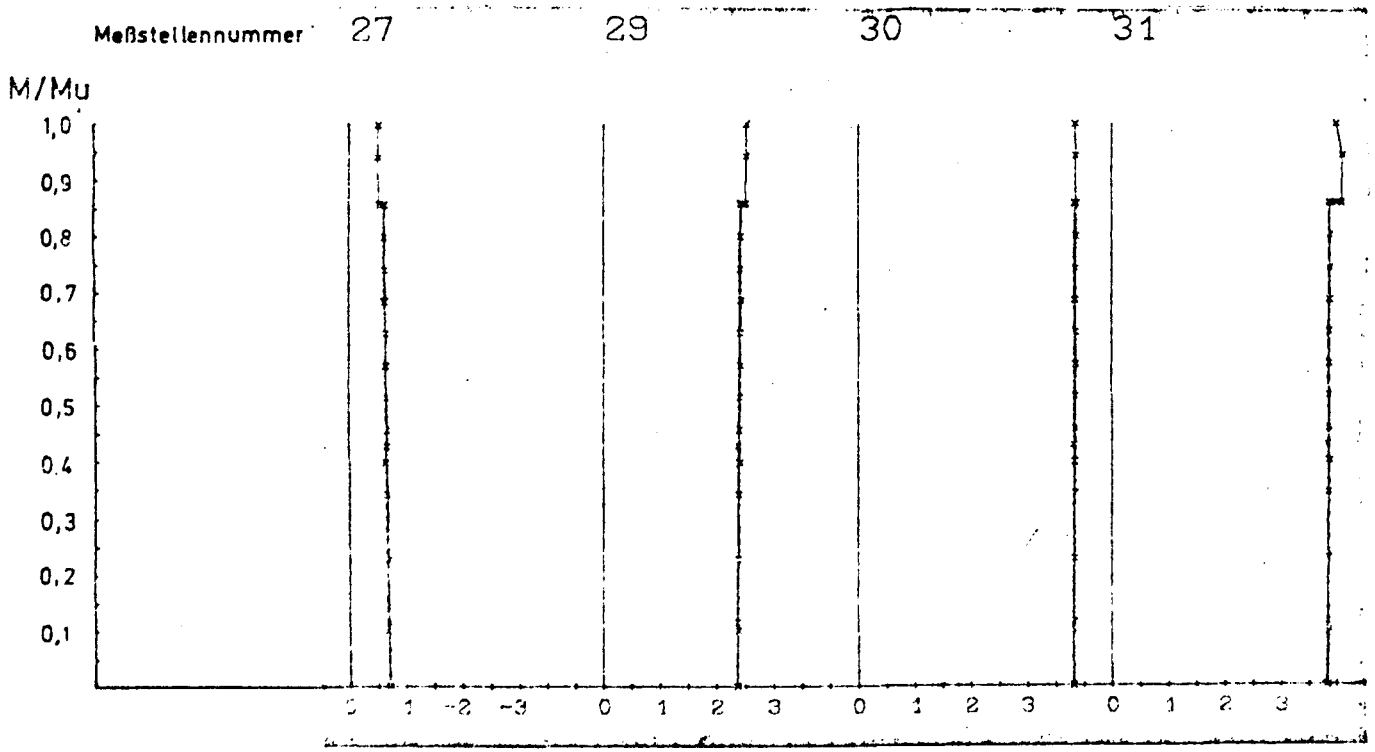


Längsstahldehnungen des Balkens SETMQ 1

Schnitt XV

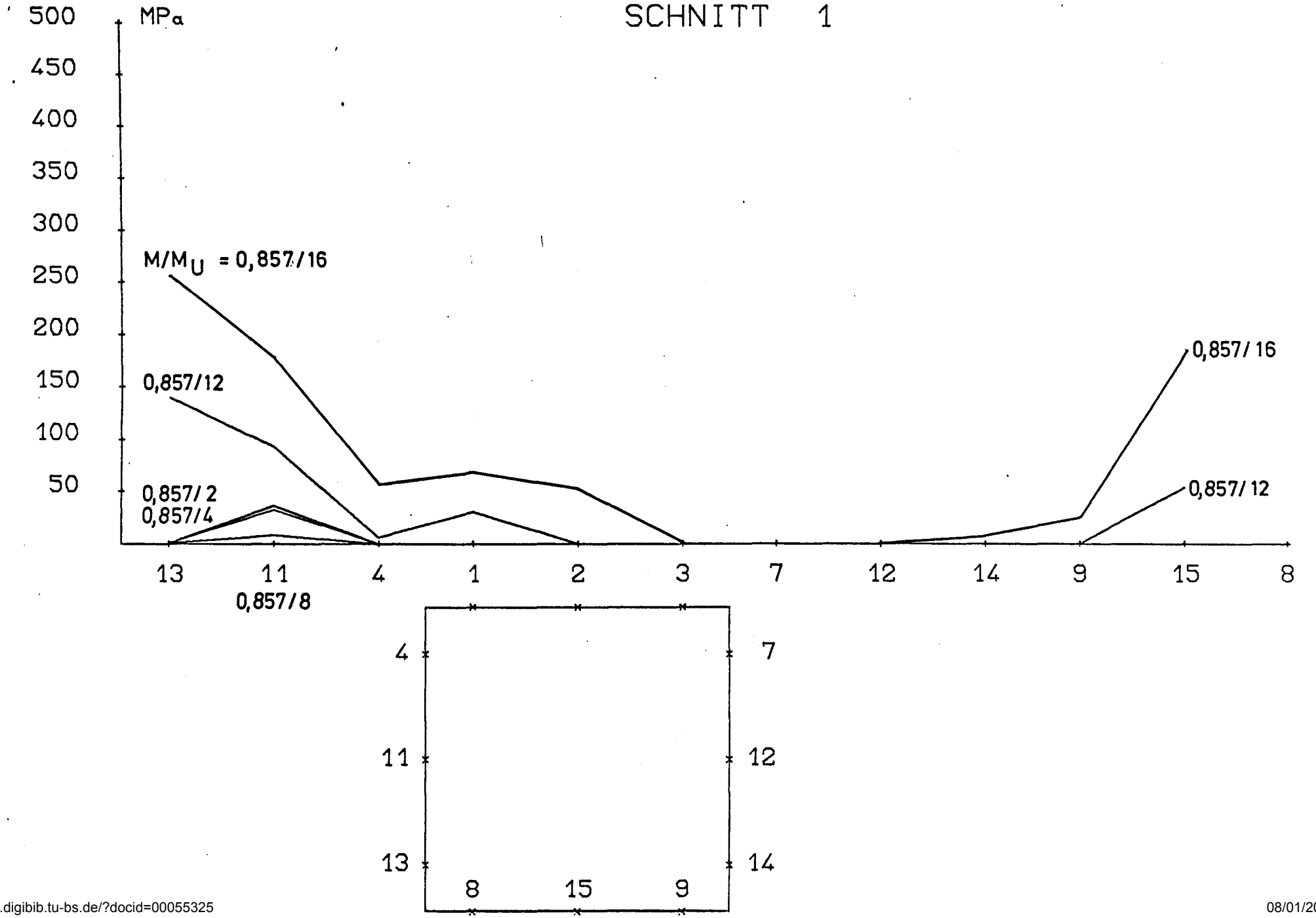






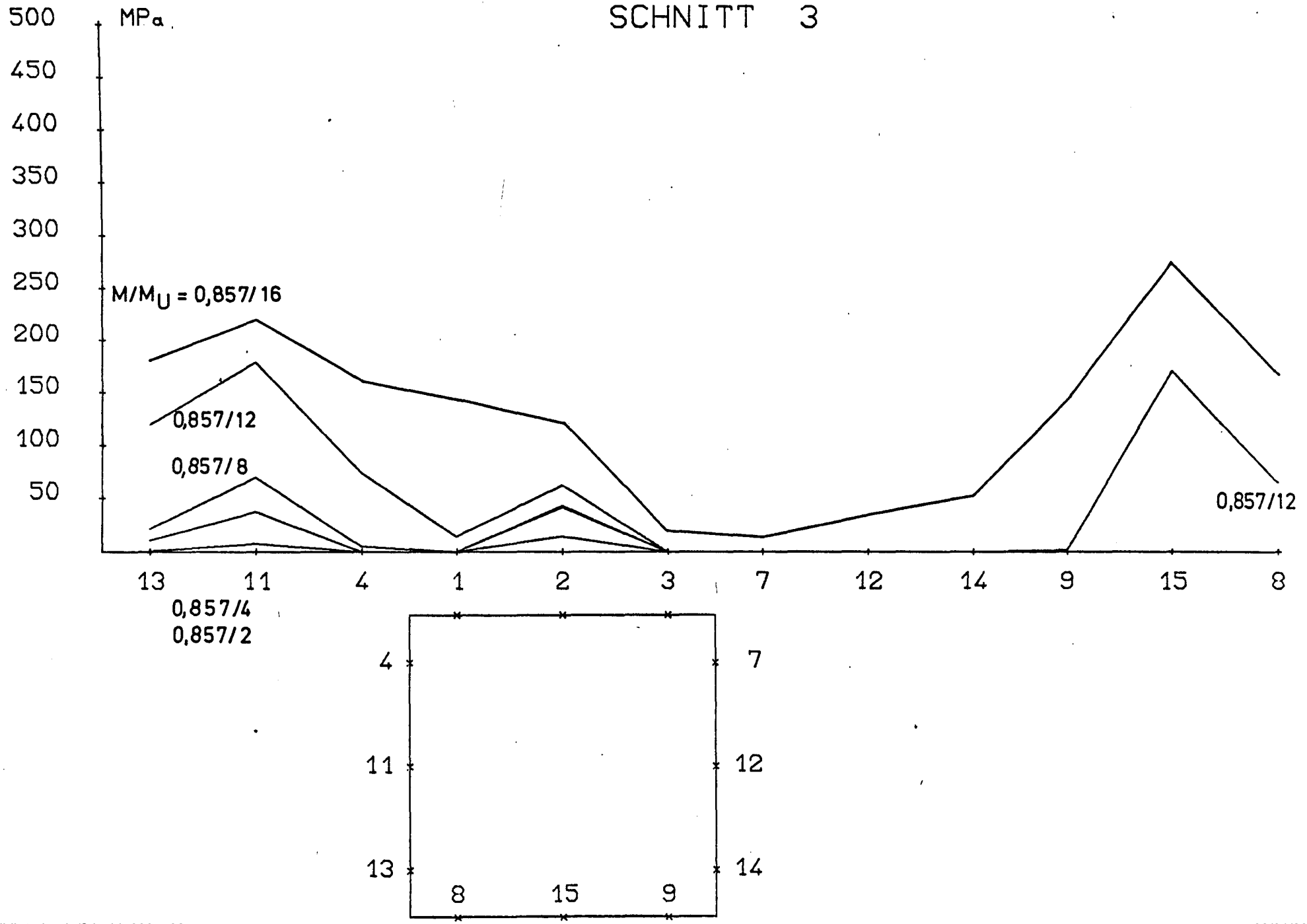
E Bügelspannungen

BUEGELSPANNUNGEN DES BALKENS SETMQ 1



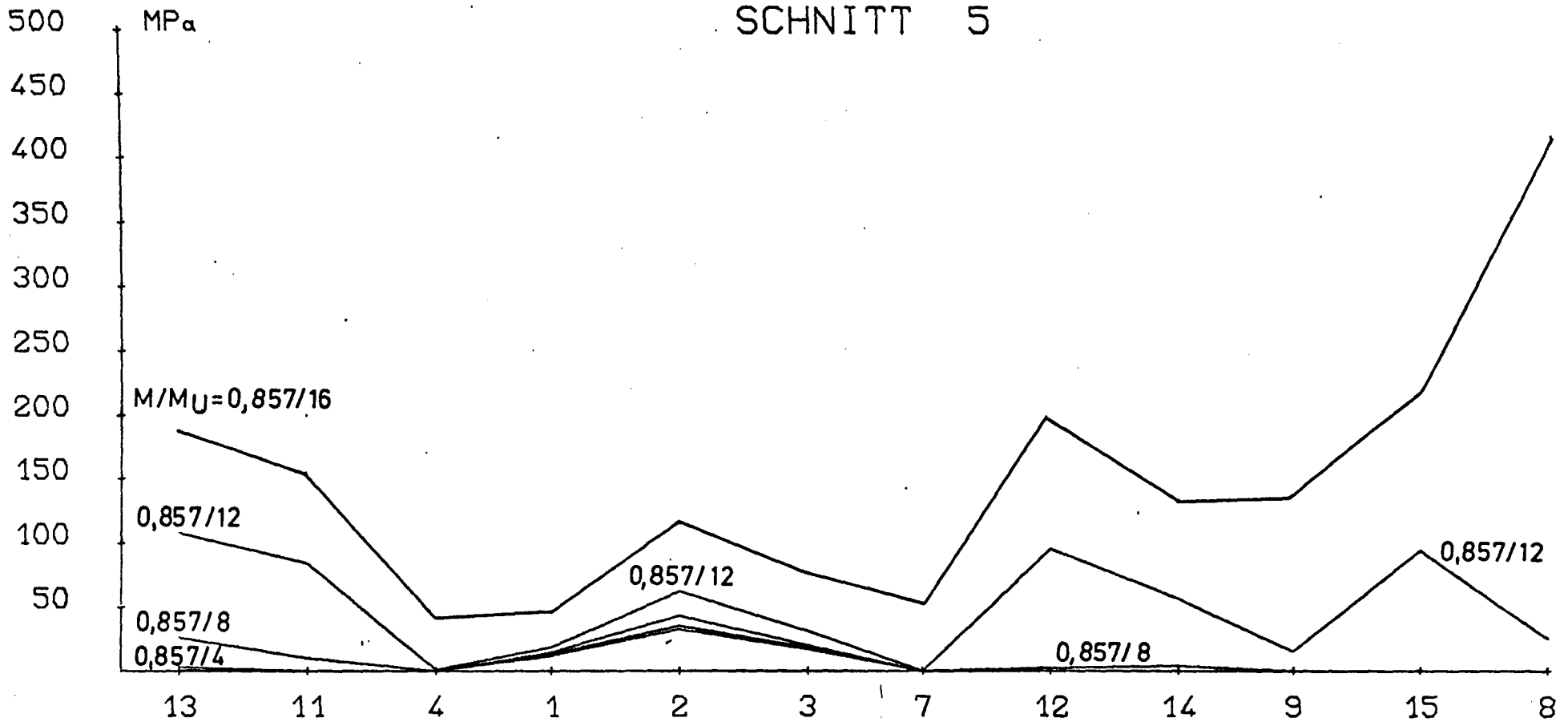
BUEGELSPANNUNGEN DES BALKENS SETMQ 1

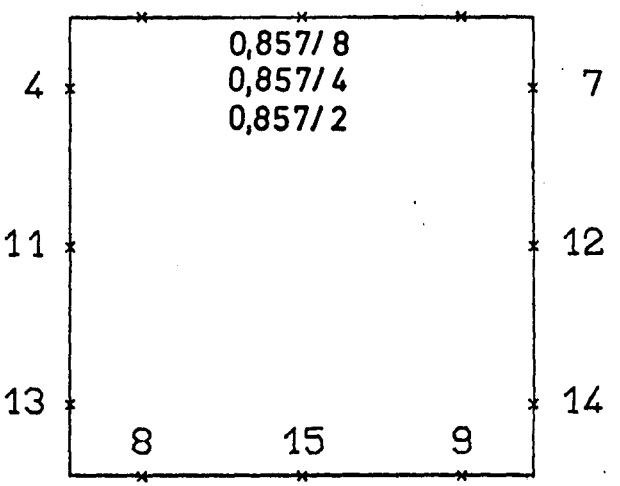
SCHNITT 3



BUEGELSPANNUNGEN DES BALKENS SETMQ 1

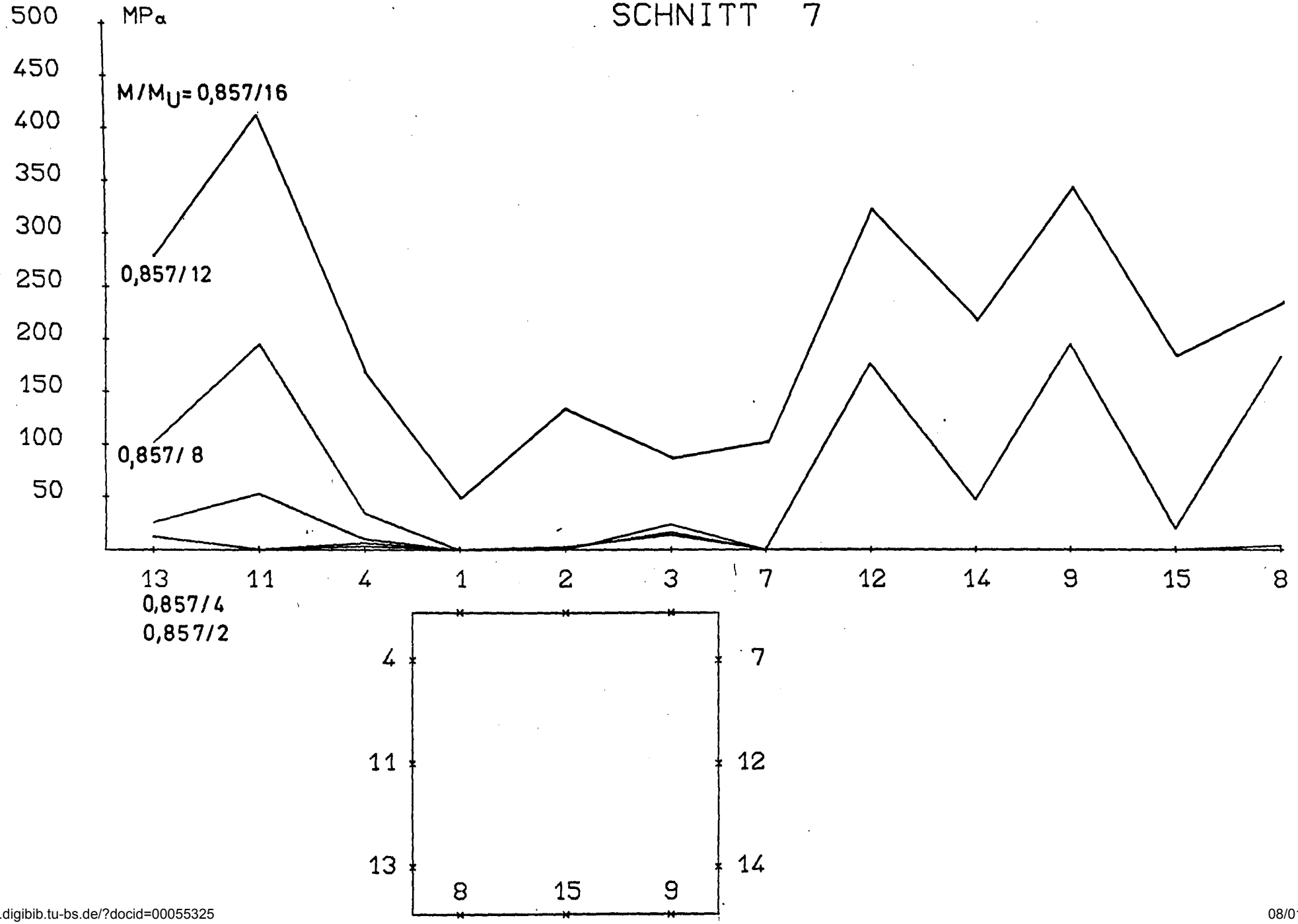
SCHNITT 5





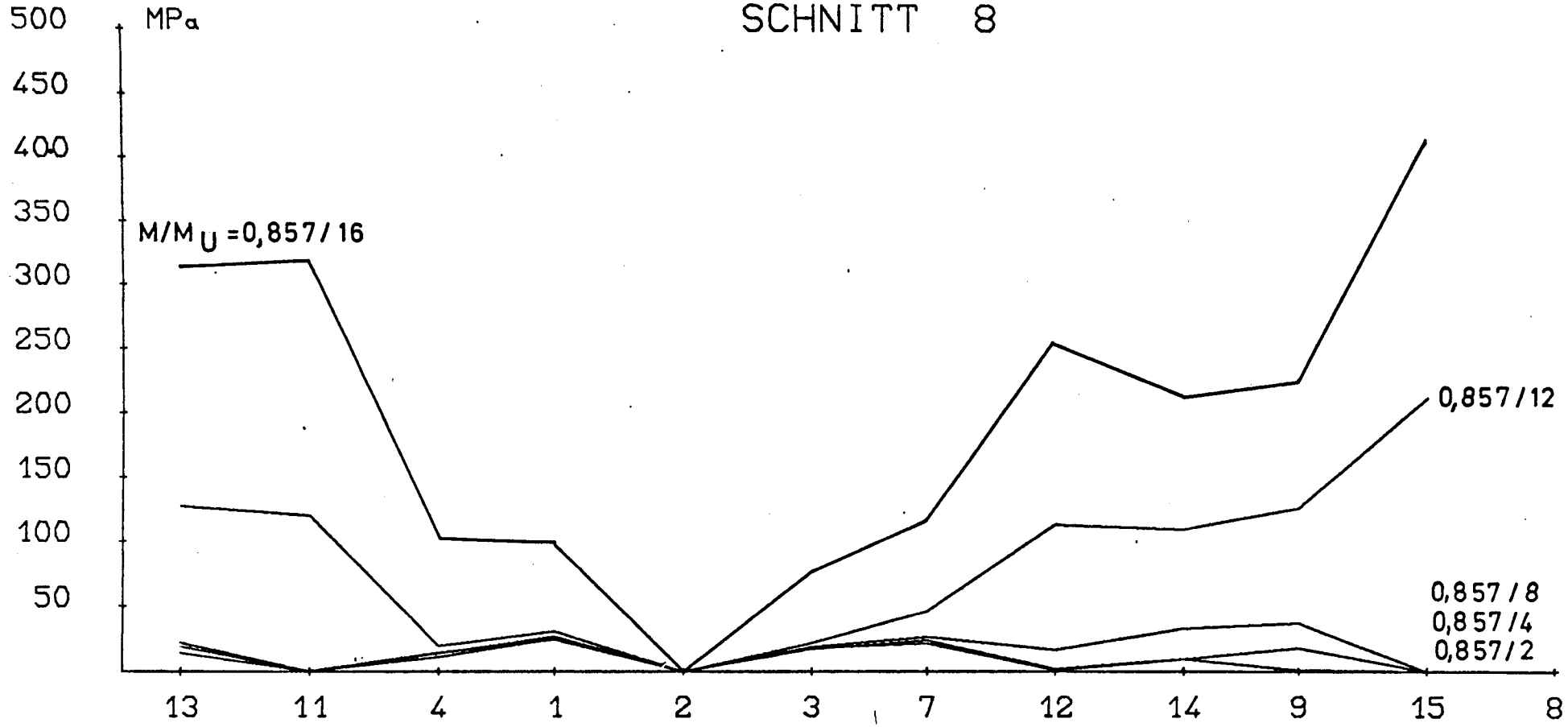
BUEGELSPANNUNGEN DES BALKENS SETMQ 1

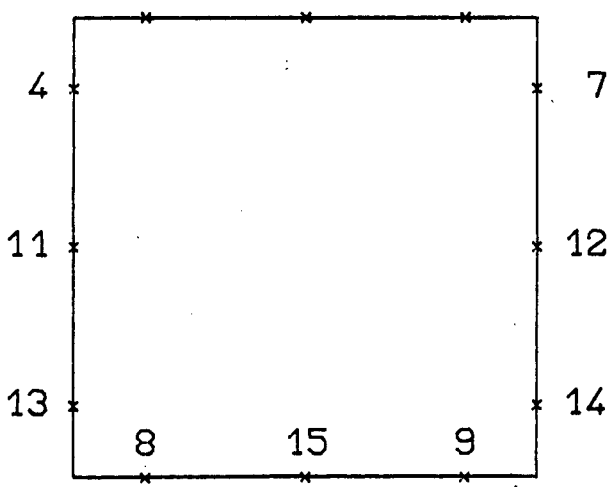
SCHNITT 7



BUEGELSPANNUNGEN DES BALKENS SETMQ 1

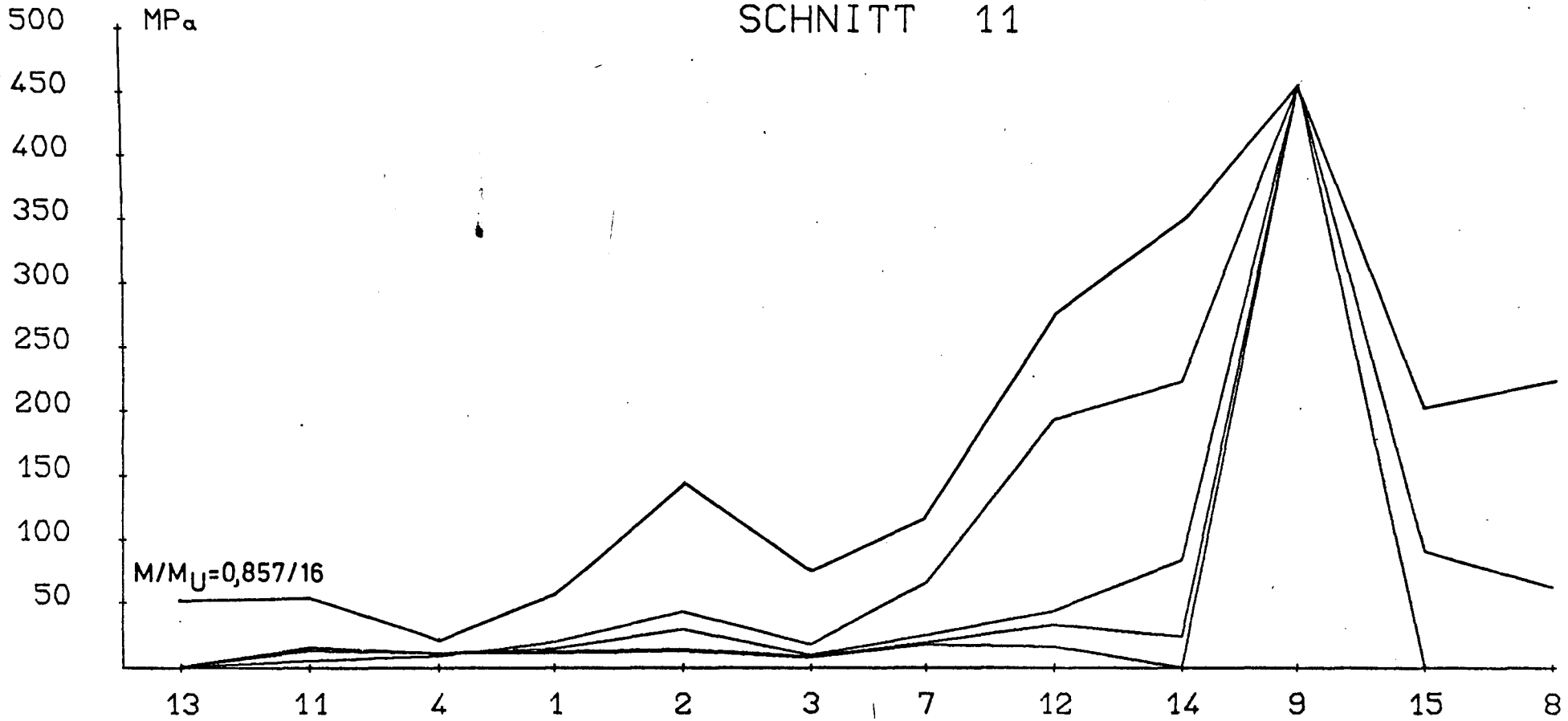
SCHNITT 8

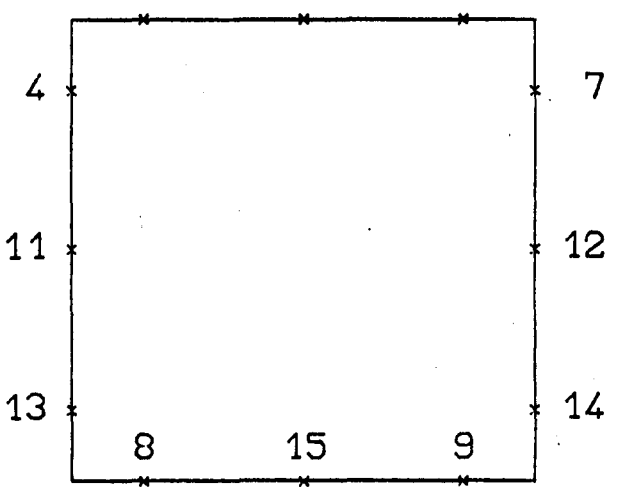




BUEGELSPANNUNGEN DES BALKENS SETMQ 1

SCHNITT 11





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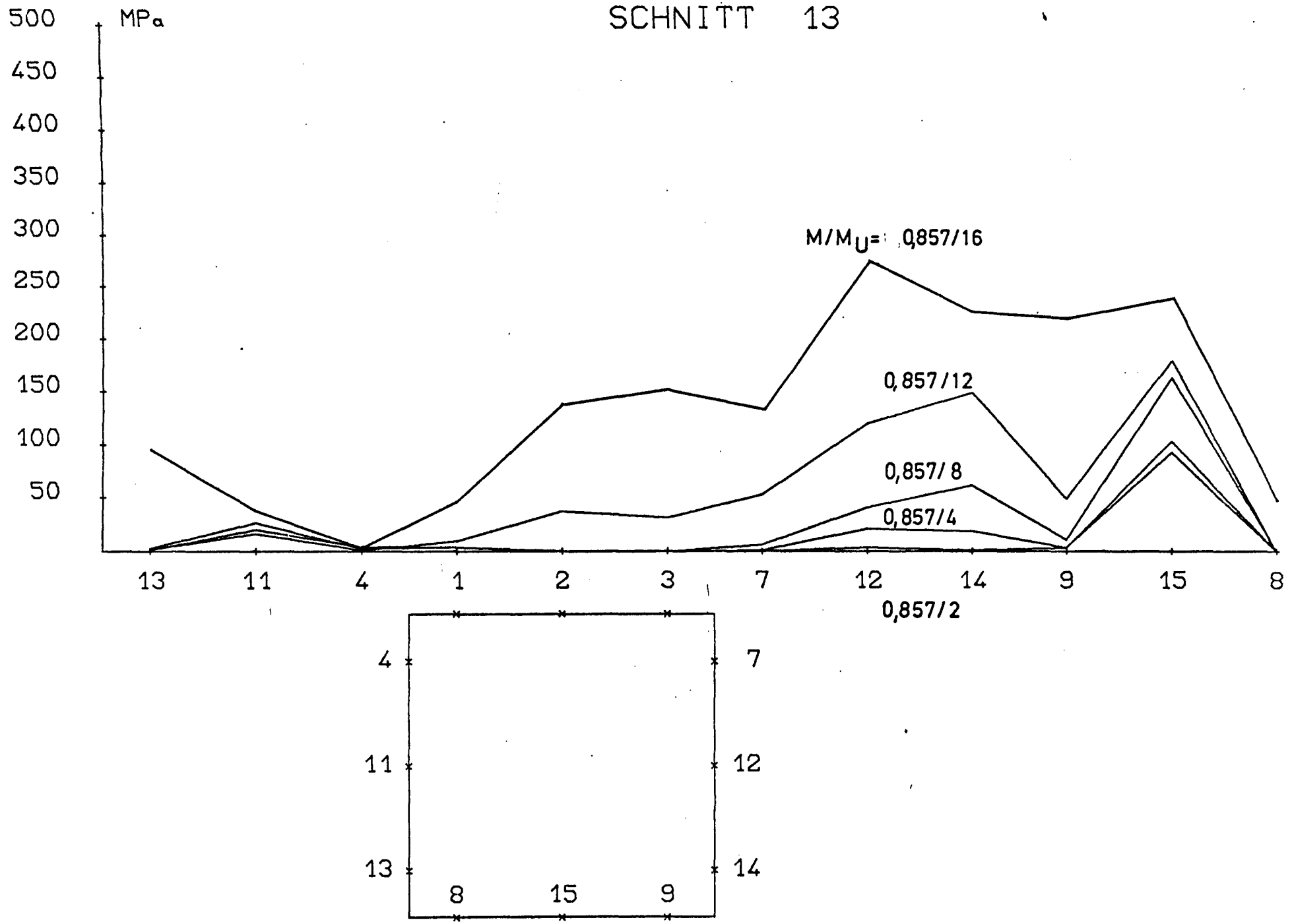
0,857/ 8
0,857/4
0,857/2

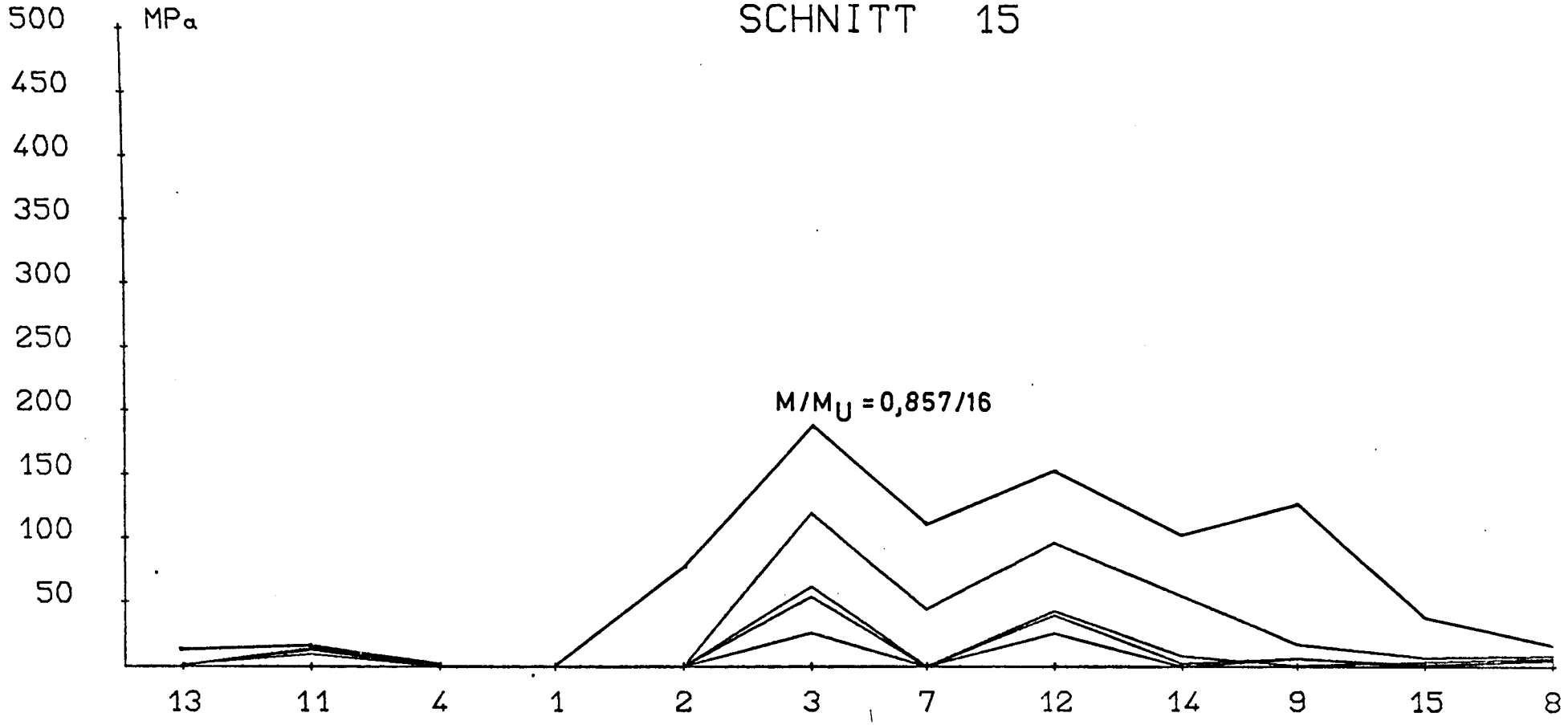
BUEGELSPANNUNGEN DES BALKENS SETMQ 1

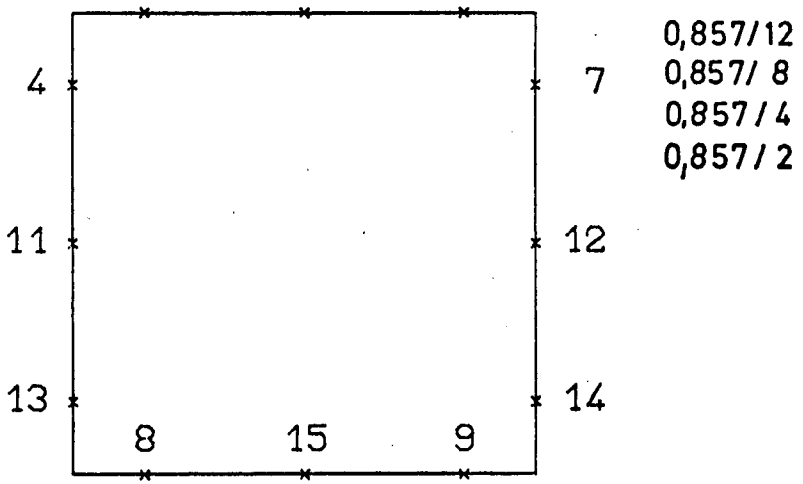
SCHNITT 13



BUEGELSPANNUNGEN DES BALKENS SETMQ 1

SCHNITT 15

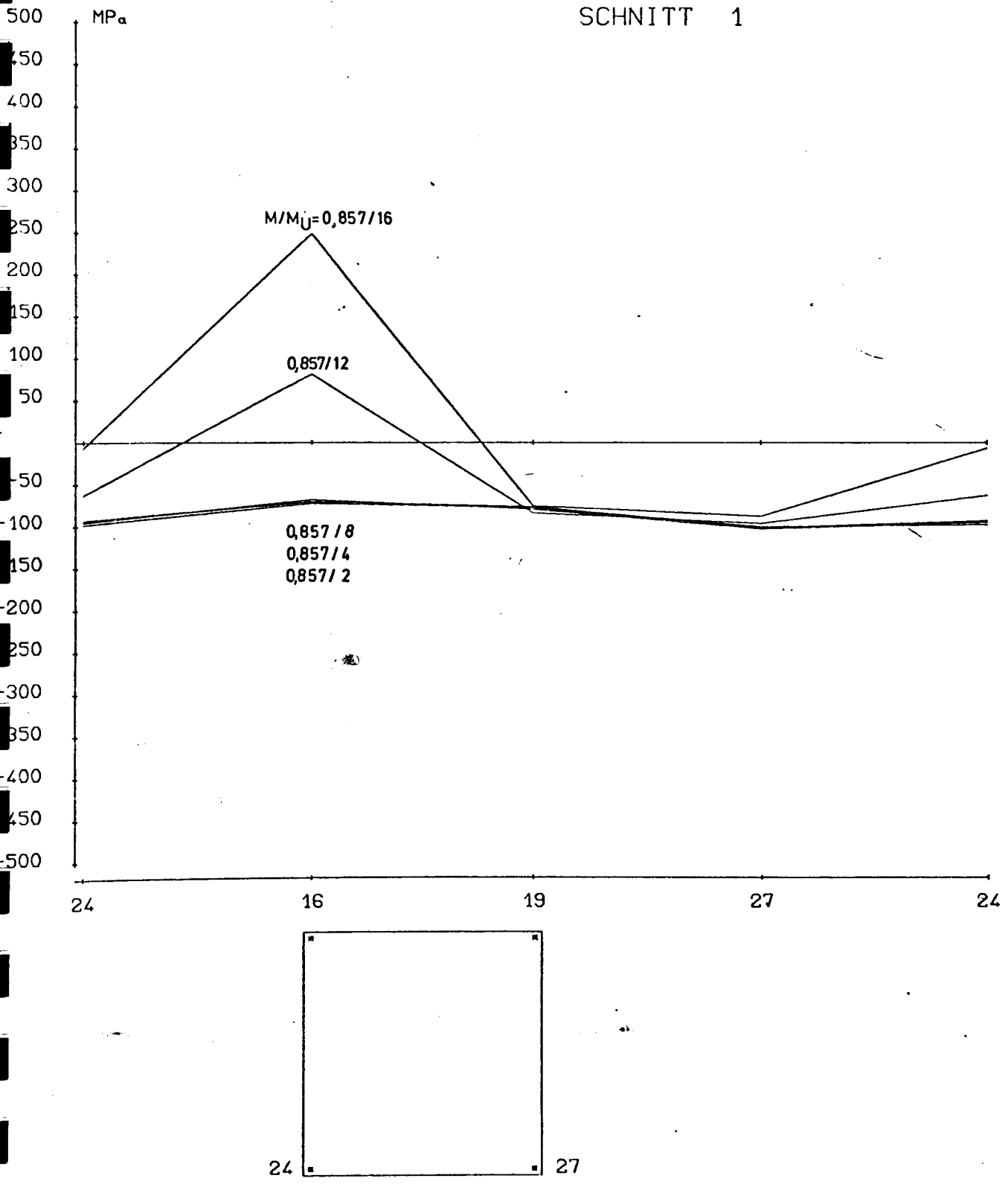




F Längsstabspannungen in Abhängigkeit ihrer Lage im Querschnitt

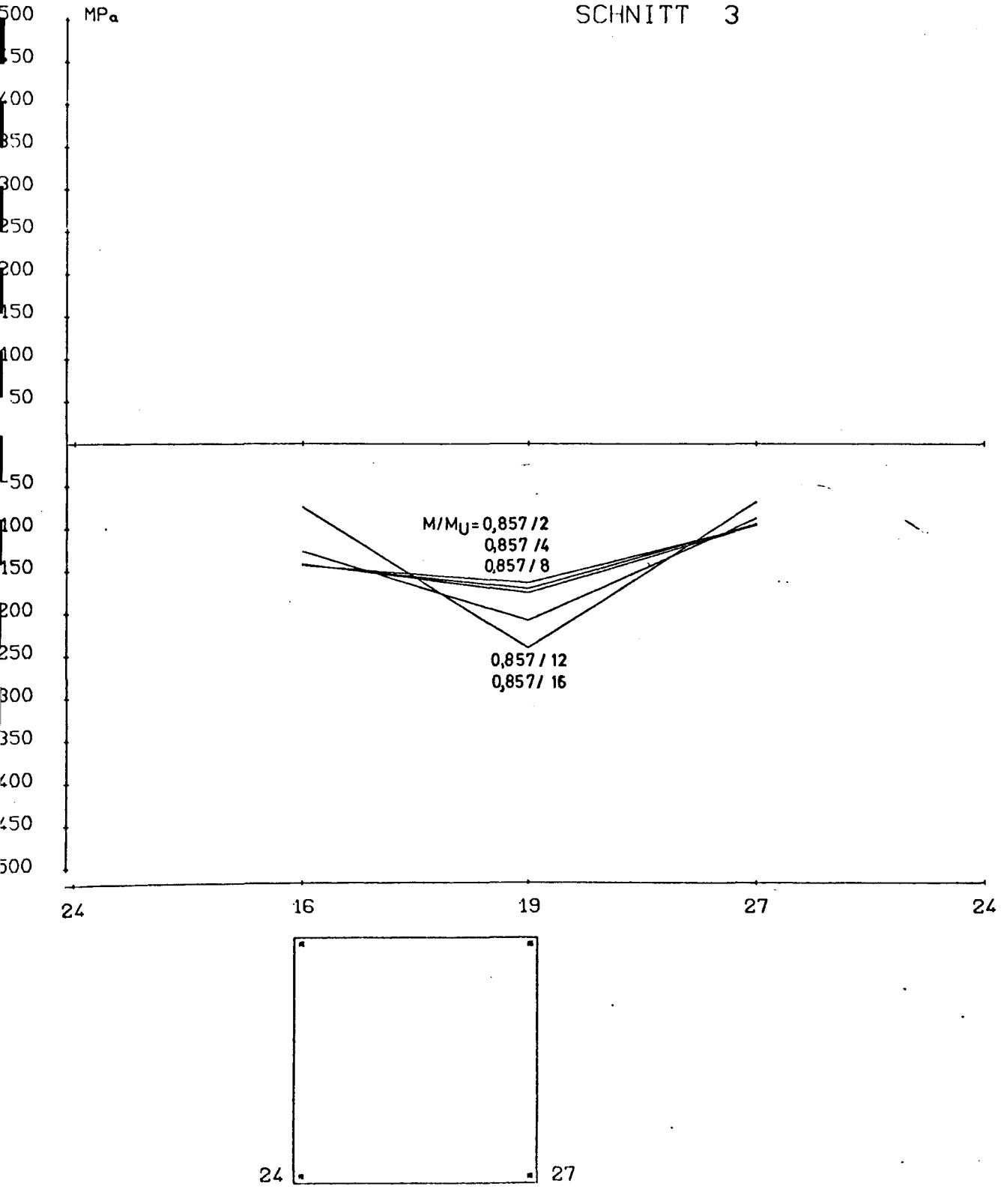
LAENGSSTABSPANNUNGEN DES BALKENS SETMQ 1

SCHNITT 1



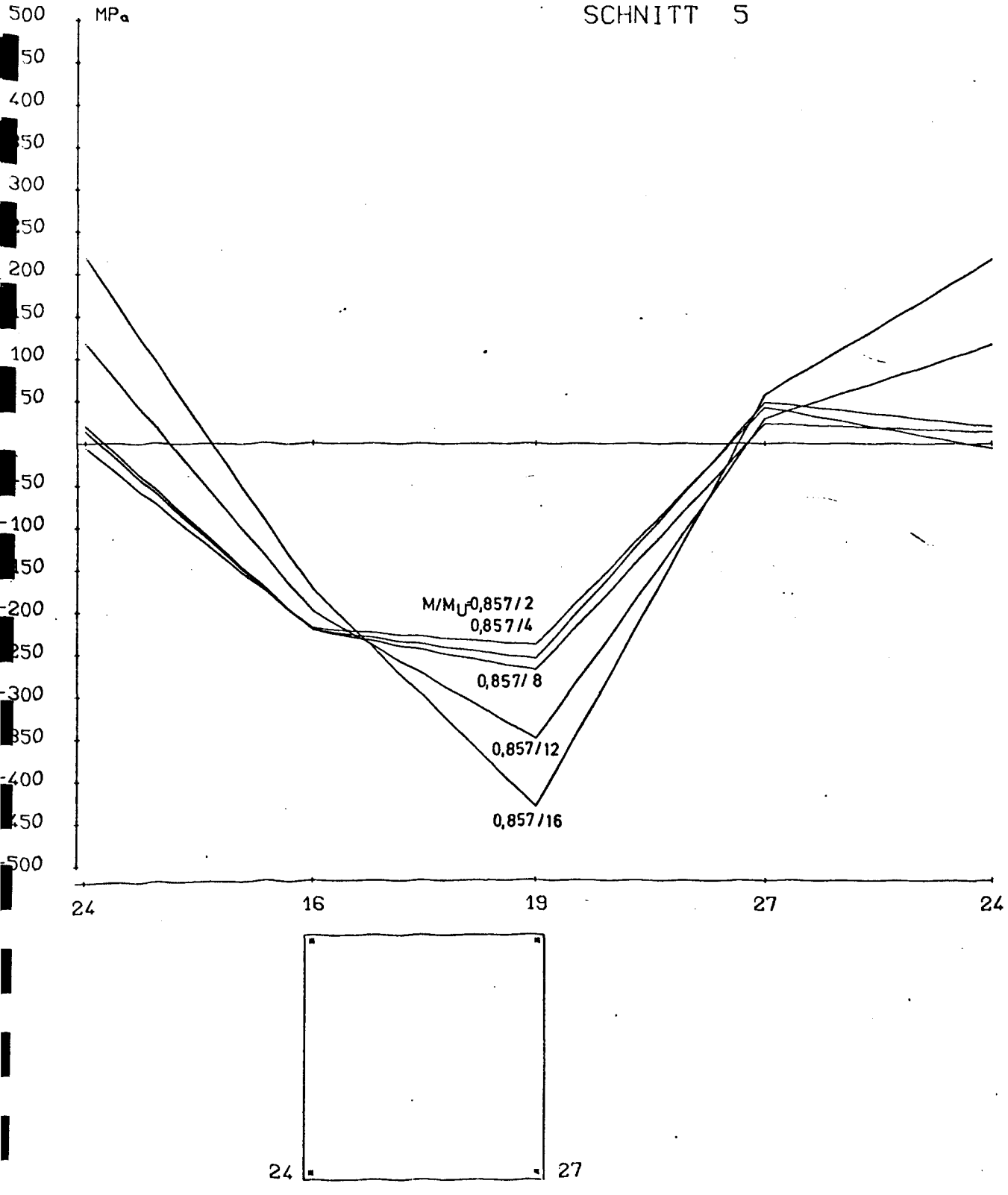
LAENGSSTABSPANNUNGEN DES BALKENS SETMQ 1

SCHNITT 3

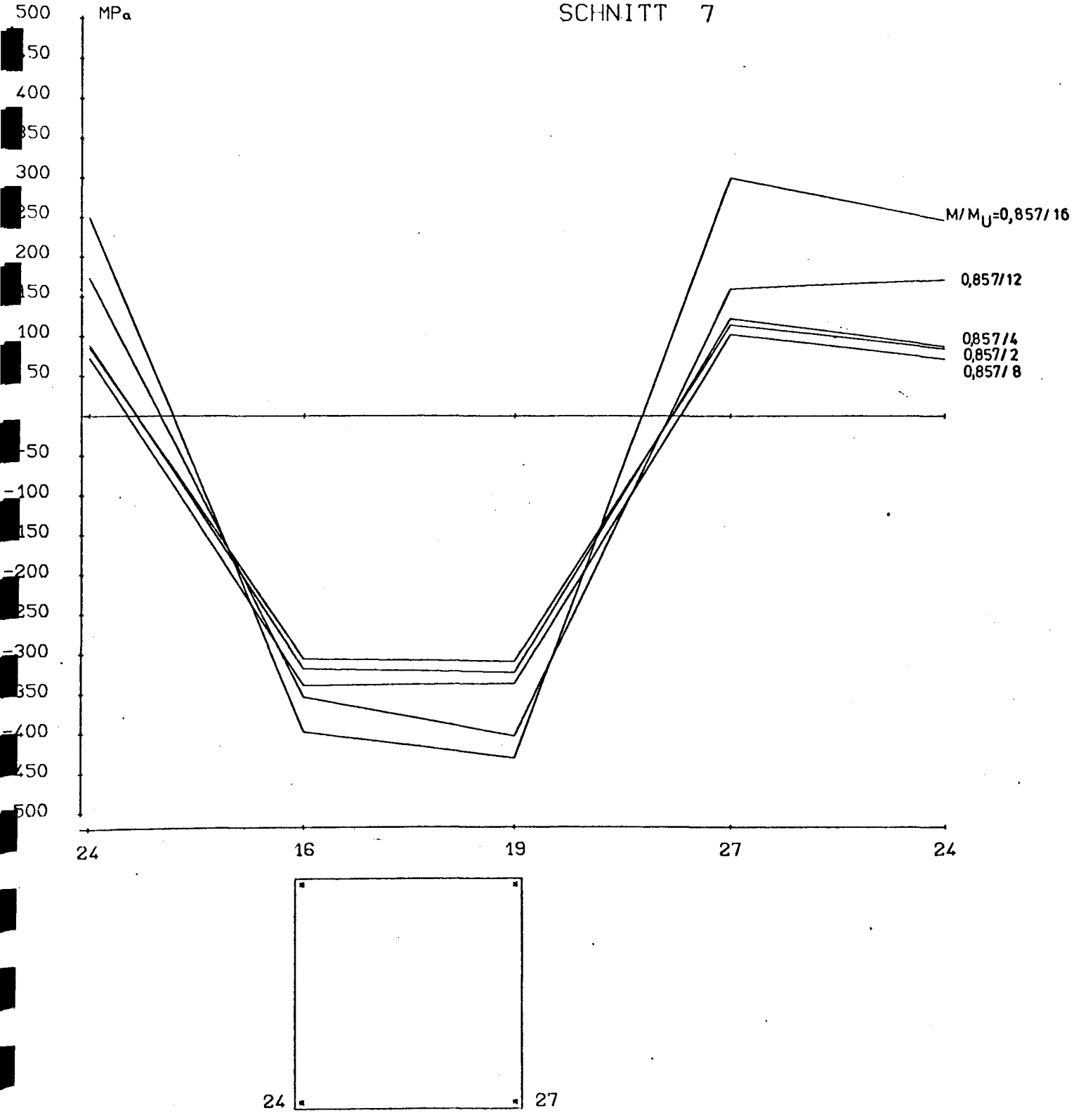


LAENGSSTABSPANNUNGEN DES BALKENS SETMQ 1

SCHNITT 5

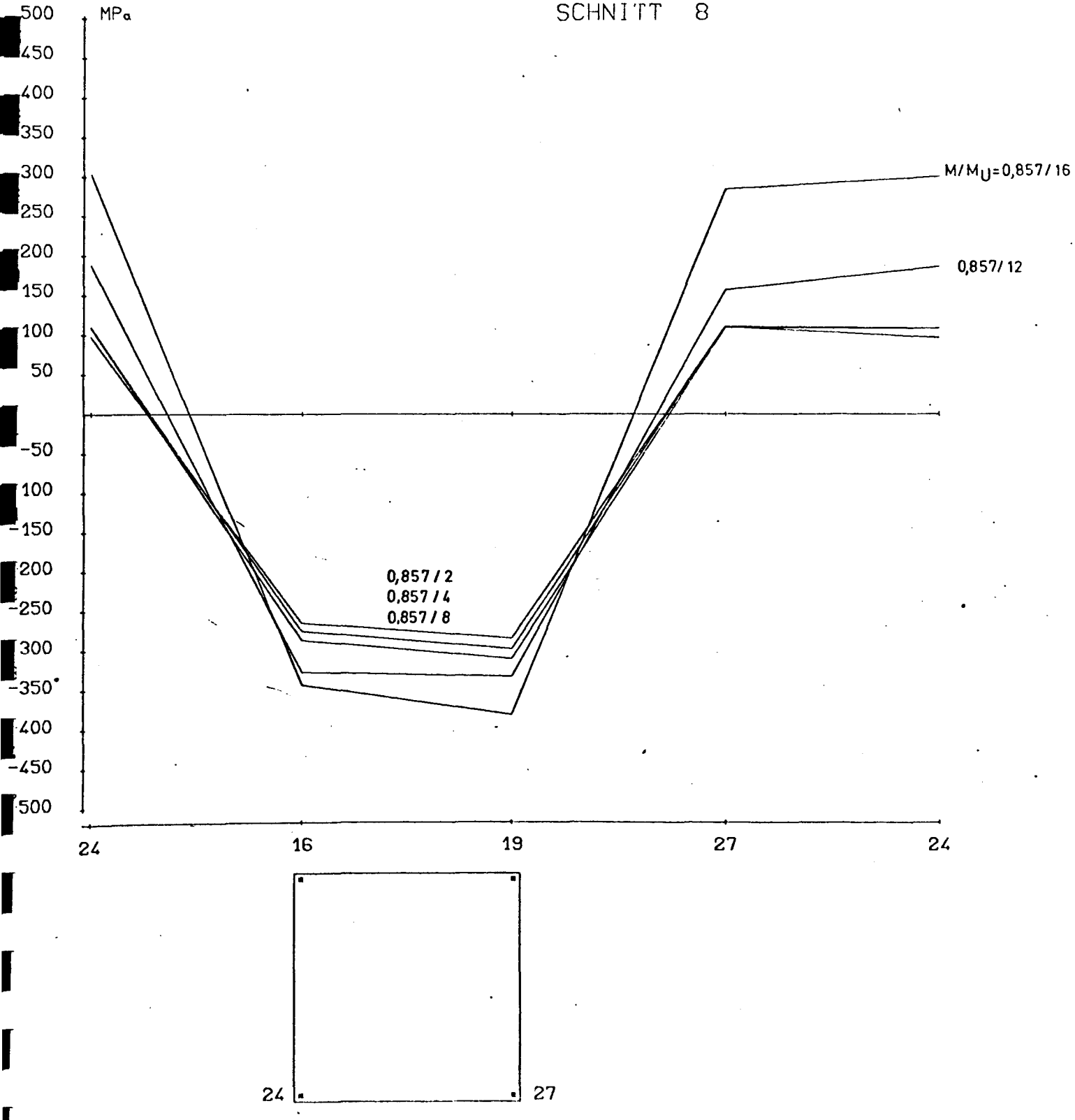


LAENGSSTABSPANNUNGEN DES BALKENS SETMQ 1



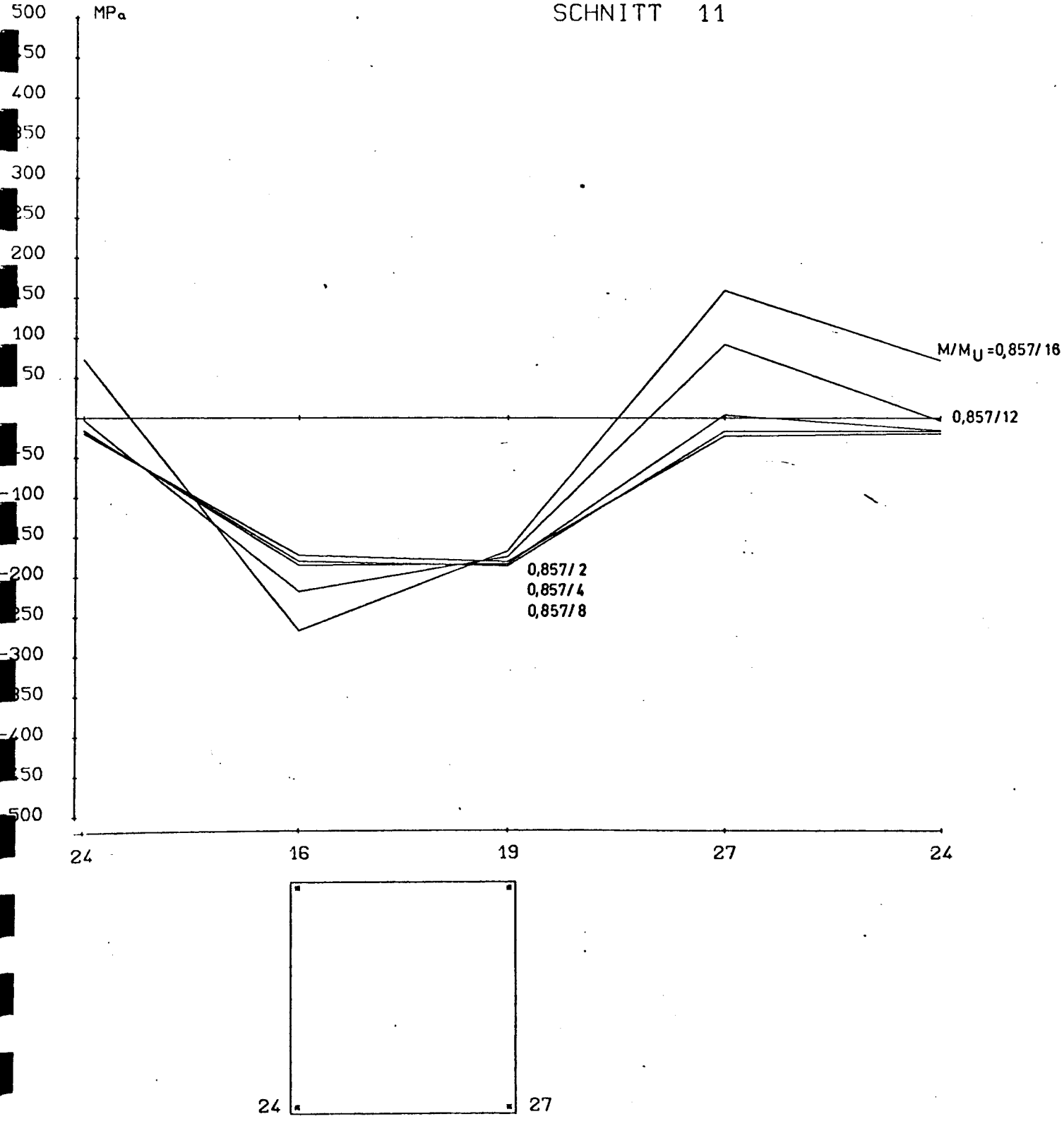
LAENGSSTABSPANNUNGEN DES BALKENS SETMQ 1

SCHNITT 8



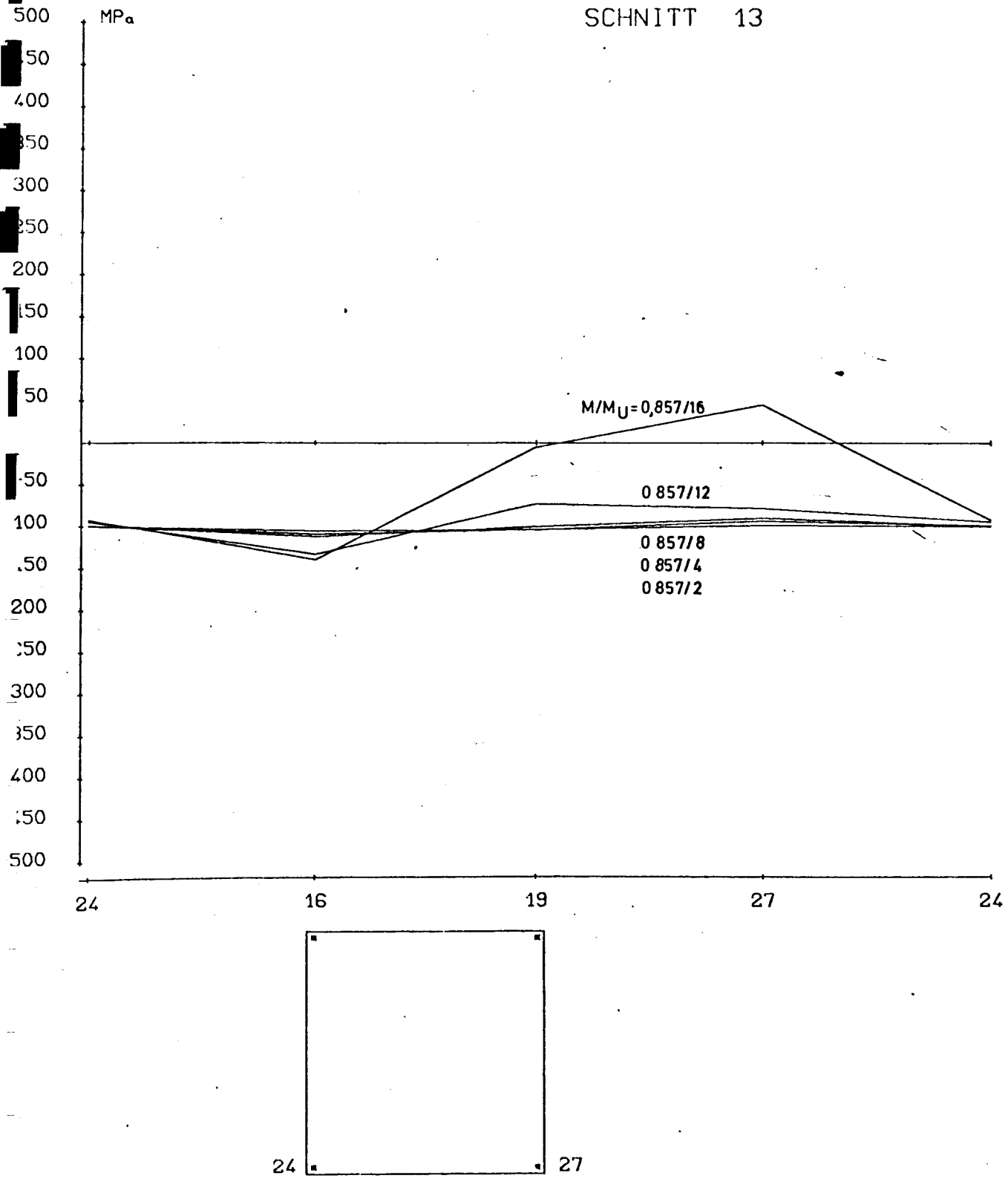
LAENGSSTABSPANNUNGEN DES BALKENS SETMQ 1

SCHNITT 11



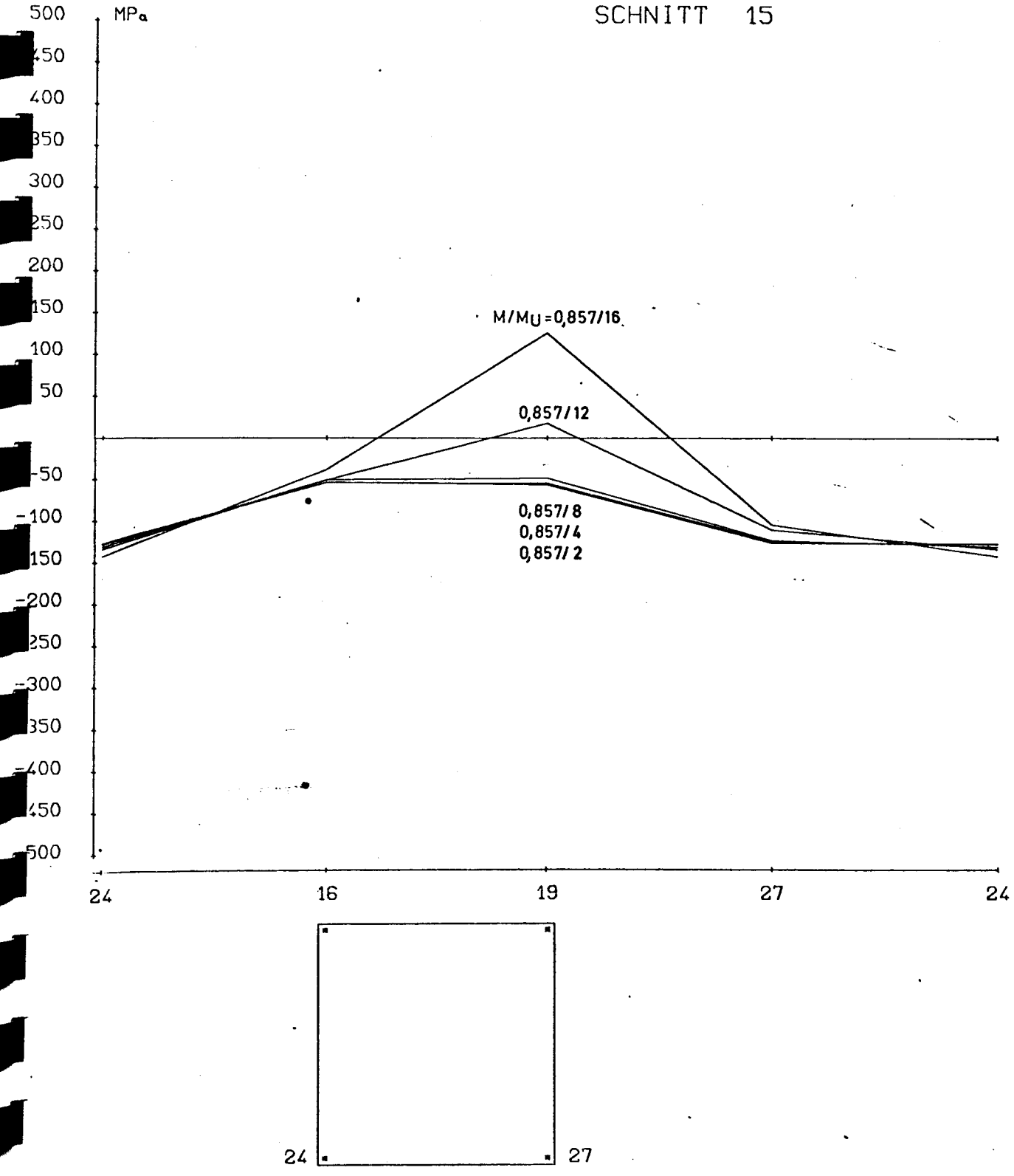
LAENGSSTABSPANNUNGEN DES BALKENS SETMQ 1

SCHNITT 13



LAENGSSTABSPANNUNGEN DES BALKENS SETMQ 1

SCHNITT 15



G Betonranddehnungen (Tabellenform)

VERSUCHSBALKEN SETM01 GEPRUEFT AM 19. 5. 1978

****

ERMITTELTE BETONQUERDEHNUNGEN IN PROMILLE

****

BELASTUNGSGRAD M/MU

SCHNITT	MESSTELLE	0.229	0.343	0.571	0.629	0.743	0.857	0.857 1	0.857 3	0.857 6	0.400 1	0.400 3	0.000 3	0.257 7
1	11	-0.155	0.035	0.105	0.095	0.080	0.125	0.035	-0.005	0.050	0.075	-0.005	0.075	-0.01
1	29	0.280	0.115	0.365	0.060	0.075	0.335	-0.005	0.210	0.100	0.065	0.045	0.245	0.25
1	41	0.030	0.025	0.035	-0.070	0.040	0.110	0.070	0.270	0.665	0.515	0.600	0.285	0.52
3	14	0.020	0.015	0.110	0.085	0.060	0.115	0.150	0.095	0.105	0.070	0.035	0.130	0.13
3	32	-0.045	0.020	0.020	-0.030	-0.015	0.060	0.075	-0.005	-0.085	0.000	-0.015	0.085	0.07
3	44	-0.010	0.040	0.010	-0.120	0.015	0.075	0.095	0.150	0.375	0.210	0.295	0.230	0.36
5	35	-0.095	-0.140	0.040	-0.020	-0.030	0.085	0.040	-0.080	0.015	-0.035	0.060	-0.060	0.08
7	17	0.010	0.050	0.100	0.060	0.065	0.165	0.190	0.170	0.090	0.080	0.060	0.125	0.16
7	38	-0.020	0.010	0.040	-0.040	-0.040	0.000	0.040	-0.010	-0.025	0.020	-0.005	0.055	0.03
8	2	-0.050	-0.105	-0.100	0.055	-0.155	0.035	-0.020	0.080	-0.085	-0.085	-0.150	0.040	0.17
8	20	-0.050	0.000	0.005	-0.085	-0.135	-0.050	-0.055	-0.095	-0.155	-0.110	-0.160	-0.035	-0.11
11	5	-0.050	0.005	-0.055	0.035	0.010	0.155	-0.030	0.130	0.070	0.065	0.095	0.075	0.21
11	26	-0.005	0.060	0.085	0.020	0.020	0.075	0.100	0.040	0.015	-0.005	-0.040	0.060	0.03
13	8	-0.025	0.015	0.020	-0.095	-0.005	0.005	-0.100	0.075	0.000	-0.045	-0.090	0.050	0.07
13	23	0.010	0.040	0.095	0.060	0.055	0.115	0.120	0.095	0.060	0.090	0.015	0.070	0.08

VERSUCHSBALKEN SETMQ1 GEPRUEFT AM 19. 5. 1978

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ERMITTELTE BETONQUERDEHNUNGEN IN PROMILLE

****

BELASTUNGSGRAD M/MU

SCHNITT	MESSTELLE	0.857	0.857	0.857	0.857	0.857	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00
		9	11	13	15	16								
1	11	0.000	-0.110	-0.080	-0.265	-0.215								
1	29	0.355	0.310	0.155	0.140	-0.050								
1	41	0.665	1.060	1.250	1.295	1.230								
3	14	0.120	0.140	0.340	0.455	0.480								
3	32	0.005	-0.010	-0.005	0.105	0.130								
3	44	0.330	0.725	1.270	1.540	1.355								
5	35	0.025	0.260	0.465	0.825	0.885								
7	17	0.140	-0.930	0.005	0.035	0.070								
7	38	0.020	0.910	2.050	2.570	2.640								
8	2	0.020	0.095	0.680	0.965	1.030								
8	20	-0.205	-0.250	-0.400	-0.400	-0.420								
11	5	0.145	0.045	0.100	0.165	0.355								
11	26	0.000	-0.010	0.180	0.490	0.565								
13	8	-0.020	0.015	-0.030	-0.040	-0.095								
13	23	0.085	0.135	0.365	0.480	0.430								

VERSUCHSBALKEN SETM01 GEPRUEFT AM 19. 5. 1978

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ERMITTELTE BETONQUERDEHNUNGEN IN PROMILLE

****

BELASTUNGSGRAD M/MU

SCHNITT	MESSTELLE	0.000	0.229	0.343	0.571	0.629	0.743	0.857	0.857 1	0.857 3	0.857 6	0.400 1	0.400 3	0.00
1	11	0.040	-0.115	0.075	0.145	0.135	0.120	0.165	0.075	-0.035	0.090	0.115	0.035	0.1
1	29	-0.040	0.240	0.075	0.325	0.020	0.035	0.295	-0.045	0.170	0.060	0.025	0.005	0.2
1	41	0.005	0.035	0.030	0.040	-0.065	0.045	0.115	0.075	0.275	0.670	0.520	0.605	0.2
3	14	-0.080	-0.060	-0.065	0.030	0.005	-0.020	0.035	0.070	0.015	0.025	-0.010	-0.045	0.0
3	32	0.080	0.035	0.100	0.100	0.050	0.065	0.140	0.155	0.075	-0.005	0.080	0.065	0.1
3	44	0.010	0.000	0.050	0.020	-0.110	0.025	0.085	0.105	0.160	0.385	0.220	0.305	0.2
5	35	0.030	-0.065	-0.110	0.070	0.010	0.000	0.115	0.070	-0.050	0.045	-0.005	0.090	-0.0
7	17	-0.080	-0.070	-0.030	0.020	-0.020	-0.015	0.085	0.110	0.090	0.010	0.000	-0.020	0.0
7	38	0.070	0.050	0.080	0.110	0.030	0.030	0.070	0.110	0.060	0.045	0.090	0.065	0.1
8	2	-0.085	-0.135	-0.190	-0.185	-0.030	-0.240	-0.050	-0.105	-0.005	-0.170	-0.170	-0.235	-0.0
8	20	-0.105	-0.155	-0.105	-0.100	-0.190	-0.240	-0.155	-0.160	-0.200	-0.260	-0.215	-0.265	-0.1
11	5	-0.005	-0.055	0.000	-0.060	0.030	0.005	0.150	-0.035	0.125	0.065	0.060	0.090	0.0
11	26	-0.050	-0.055	0.010	0.035	-0.030	-0.030	0.025	0.050	-0.010	-0.035	-0.055	-0.090	0.0
13	8	0.055	0.030	0.070	0.075	-0.040	0.050	0.060	-0.045	0.130	0.055	0.010	-0.035	0.1
13	23	-0.060	-0.050	-0.020	0.035	0.000	-0.005	0.055	0.060	0.035	0.000	0.030	-0.045	0.0

VERSUCHSBALKEN SETMQ1 GEPRUEFT AM 19. 5. 1978

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ERMITTELTE BETONQUERDEHNUNGEN IN PROMILLE

****

BELASTUNGSGRAD M/MU

SCHNITT	MESSTELLE	0.857	0.857	0.857	0.857	0.857	0.857	0.000	0.000	0.000	0.000	0.000	0.000	0.0
		7	9	11	13	15	16							
1	11	0.030	0.040	-0.070	-0.040	-0.225	-0.175							
1	29	0.215	0.315	0.270	0.115	0.100	-0.090							
1	41	0.525	0.670	1.065	1.255	1.300	1.235							
3	14	0.050	0.040	0.060	0.260	0.375	0.400							
3	32	0.150	0.085	0.070	0.075	0.185	0.210							
3	44	0.370	0.340	0.735	1.280	1.550	1.365							
5	35	0.110	0.055	0.290	0.495	0.855	0.915							
7	17	0.080	0.060	-1.010	-0.075	-0.045	-0.010							
7	38	0.100	0.090	0.980	2.120	2.640	2.710							
8	2	0.085	-0.065	0.010	0.595	0.880	0.945							
8	20	-0.220	-0.310	-0.355	-0.505	-0.505	-0.525							
11	5	0.195	0.140	0.040	0.095	0.160	0.350							
11	26	-0.015	-0.050	-0.060	0.130	0.440	0.515							
13	8	0.125	0.035	0.070	0.025	0.015	-0.040							
13	23	0.025	0.025	0.075	0.305	0.420	0.370							

VERSUCHSBALKEN SETM01 GEPRUEFT AM 19. 5. 1978

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ERMITTELTE BETONLAENGSDEHNUNGEN IN PROMILLE

****

BELASTUNGSGRAD M/MU

SCHNITT	MESSTELLE	0.229	0.343	0.571	0.629	0.743	0.857	0.857 1	0.857 3	0.857 6	0.400 1	0.400 3	0.000 3	0.657 7
1	12	-0.130	-0.055	-0.045	-0.155	-0.185	-0.155	-0.105	-0.160	-0.190	-0.080	-0.120	0.035	-0.140
1	30	-0.005	0.105	0.195	0.220	0.100	0.250	0.330	0.190	0.125	0.040	0.075	0.195	0.360
1	42	-0.010	0.020	0.025	-0.035	-0.050	-0.035	0.030	-0.060	-0.145	-0.065	-0.135	-0.030	-0.140
3	15	-0.125	-0.180	-0.155	-0.375	-0.460	-0.525	-0.470	-0.545	-0.560	-0.325	-0.350	-0.025	-0.525
3	33	-0.020	0.035	0.030	-0.045	-0.045	0.000	-0.025	-0.095	-0.135	-0.120	-0.145	-0.020	-0.065
3	45	0.040	0.000	0.005	-0.070	-0.085	-0.015	-0.015	-0.095	-0.035	0.005	0.035	0.055	-0.070
5	36	-0.035	-0.005	0.055	-0.005	-0.070	0.105	0.060	-0.015	0.020	-0.090	-0.135	-0.060	0.030
7	18	-0.240	-0.320	-0.385	-0.670	-0.860	-1.025	-1.125	-1.205	-1.375	-0.820	-0.880	-0.215	-1.265
7	39	-0.050	-0.055	0.025	-0.050	-0.050	-0.005	0.030	-0.035	-0.040	-0.125	-0.140	-0.015	0.040
8	3	-0.055	0.000	-0.050	-0.035	-0.065	0.025	0.045	0.005	0.140	-0.005	-0.065	-0.040	0.055
8	21	-0.180	-0.230	-0.180	-0.510	-0.745	-0.820	-0.920	-0.995	-1.140	-0.645	-0.690	-0.180	-1.045
11	6	-0.035	0.005	0.000	-0.045	-0.090	-0.070	0.005	-0.110	-0.115	-0.110	-0.120	0.010	-0.095
11	27	-0.170	-0.235	-0.295	-0.495	-0.580	-0.565	-0.565	-0.635	-0.705	-0.455	-0.455	-0.080	-0.635
13	9	0.005	-0.030	0.015	-0.070	-0.045	0.000	0.020	-0.095	-0.065	-0.035	-0.075	-0.005	-0.090
13	24	-0.120	-0.130	-0.135	-0.255	-0.300	-0.260	-0.290	-0.340	-0.325	-0.200	-0.235	-0.015	-0.310

VERSUCHSBALKEN SETMQ1 GEPRUEFT AM 19. 5. 1978

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ERMITTELTE BETONLAENGSDEHNUNGEN IN PROMILLE

****

BELASTUNGSGRAD M/MU

SCHNITT	MESSTELLE	0.857	0.857	0.857	0.857	0.857	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		9	11	13	15	16								
1	12	-0.155	-0.100	-0.195	-0.180	-0.215								
1	30	0.260	0.040	-0.145	-0.060	-0.115								
1	42	-0.130	-0.185	-0.085	0.020	0.040								
3	15	-0.540	-0.530	-0.420	-0.430	-0.475								
3	33	-0.150	-0.210	-0.240	-0.185	-0.230								
3	45	-0.005	0.085	0.180	0.275	0.275								
5	36	0.005	0.100	0.035	-0.040	-0.080								
7	18	-1.350	-1.480	-1.660	-1.900	-2.015								
7	39	-0.015	-0.025	-0.300	-0.380	-0.495								
8	3	0.100	0.200	0.775	1.245	1.410								
8	21	-1.130	-1.305	-1.375	-1.430	-1.490								
11	6	-0.145	-0.110	-0.130	-0.095	-0.165								
11	27	-0.665	-0.675	-0.655	-0.690	-0.785								
13	9	-0.110	-0.115	-0.155	-0.145	-0.245								
13	24	-0.300	-0.335	-0.230	-0.135	-0.180								

VERSUCHSBALKEN SETM01 GEPRUEFT AM 19. 5. 1978

ERMITTELTE BETONLAENGSDEHNUNGEN IN PROMILLE

BELASTUNGSGRAD M/MU

SCHNITT	MESSTELLE	0.000	0.229	0.343	0.571	0.629	0.743	0.857	0.857 1	0.857 3	0.857 6	0.400 1	0.400 3	0.00
1	12	-0.095	-0.225	-0.150	-0.140	-0.250	-0.280	-0.250	-0.200	-0.255	-0.285	-0.175	-0.215	-0.06
1	30	-0.590	-0.595	-0.485	-0.395	-0.370	-0.490	-0.340	-0.260	-0.400	-0.465	-0.550	-0.515	-0.3
1	42	-0.365	-0.375	-0.345	-0.340	-0.400	-0.415	-0.400	-0.335	-0.425	-0.510	-0.430	-0.500	-0.3
3	15	-0.095	-0.220	-0.275	-0.250	-0.470	-0.555	-0.620	-0.565	-0.640	-0.655	-0.420	-0.445	-0.12
3	33	-0.515	-0.535	-0.480	-0.485	-0.560	-0.560	-0.515	-0.540	-0.610	-0.650	-0.635	-0.660	-0.53
3	45	-0.550	-0.510	-0.550	-0.545	-0.620	-0.635	-0.565	-0.565	-0.645	-0.585	-0.545	-0.515	-0.49
5	36	-0.500	-0.535	-0.505	-0.445	-0.505	-0.570	-0.395	-0.440	-0.515	-0.480	-0.590	-0.635	-0.56
7	18	-0.200	-0.440	-0.520	-0.585	-0.870	-1.060	-1.225	-1.325	-1.405	-1.575	-1.020	-1.080	-0.41
7	39	-0.400	-0.450	-0.455	-0.375	-0.450	-0.450	-0.405	-0.370	-0.435	-0.440	-0.525	-0.540	-0.41
8	3	-0.440	-0.495	-0.440	-0.490	-0.475	-0.505	-0.415	-0.395	-0.435	-0.300	-0.445	-0.505	-0.48
8	21	-0.230	-0.410	-0.460	-0.410	-0.740	-0.975	-1.050	-1.150	-1.225	-1.370	-0.875	-0.920	-0.41
11	6	-0.565	-0.600	-0.560	-0.565	-0.610	-0.655	-0.635	-0.560	-0.675	-0.680	-0.675	-0.685	-0.55
11	27	-0.160	-0.330	-0.395	-0.455	-0.655	-0.740	-0.725	-0.725	-0.795	-0.865	-0.615	-0.615	-0.24
13	9	-0.450	-0.445	-0.480	-0.435	-0.520	-0.495	-0.450	-0.430	-0.545	-0.515	-0.485	-0.525	-0.45
13	24	-0.085	-0.205	-0.215	-0.220	-0.340	-0.385	-0.345	-0.375	-0.425	-0.410	-0.285	-0.320	-0.10

VERSUCHSBALKEN SETMQ1 GEPRUEFT AM 19. 5. 1978

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ERMITTELTE BETONLAENGSDEHNUNGEN IN PROMILLE

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BELASTUNGSGRAD M/MU

SCHNITT	MESSTELLE	0.857	0.857	0.857	0.857	0.857	0.857	0.000	0.000	0.000	0.000	0.000	0.000	0.0
		7	9	11	13	15	16							
1	12	-0.255	-0.250	-0.195	-0.290	-0.275	-0.310							
1	30	-0.230	-0.330	-0.550	-0.735	-0.650	-0.705							
1	42	-0.505	-0.495	-0.550	-0.450	-0.345	-0.325							
3	15	-0.020	-0.635	-0.625	-0.515	-0.525	-0.570							
3	33	-0.580	-0.665	-0.725	-0.755	-0.700	-0.745							
3	45	-0.620	-0.555	-0.465	-0.370	-0.275	-0.275							
5	36	-0.470	-0.495	-0.400	-0.465	-0.540	-0.580							
7	18	-1.465	-1.550	-1.680	-1.860	-2.100	-2.215							
7	39	-0.360	-0.415	-0.425	-0.700	-0.780	-0.895							
8	3	-0.385	-0.340	-0.240	0.335	0.805	0.970							
8	21	-1.275	-1.360	-1.535	-1.605	-1.660	-1.720							
11	6	-0.660	-0.710	-0.675	-0.695	-0.660	-0.730							
11	27	-0.795	-0.825	-0.835	-0.815	-0.850	-0.945							
13	9	-0.540	-0.560	-0.565	-0.605	-0.595	-0.695							
13	24	-0.395	-0.385	-0.420	-0.315	-0.220	-0.265							

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ERMITTELTE BETONTRAJEKTORIENDEHNUG IN PROMILLE

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BELASTUNGSGRAD M/MU

SCHNITT	MESSTELLE	0.229	0.343	0.571	0.629	0.743	0.857	0.857 1	0.857 3	0.857 6	0.400 1	0.400 3	0.000 3	0.857 7
1	10	-0.090	-0.010	0.015	-0.085	-0.100	-0.050	-0.010	-0.105	-0.180	-0.290	-0.335	-0.035	-0.1
1	28	0.030	0.075	0.230	0.300	0.205	0.345	0.350	0.280	0.185	0.075	0.005	0.085	0.4
1	47	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-0.175
1	40	-0.010	-0.005	0.055	-0.050	-0.130	-0.105	-0.170	-0.245	-0.440	-0.350	-0.485	-0.085	-0.3
2	48	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-0.1
3	13	-0.080	-0.055	-0.055	-0.140	-0.195	-0.160	-0.120	-0.245	-0.365	-0.265	-0.325	0.000	-0.2
3	31	0.005	0.080	0.125	0.080	0.120	0.235	0.210	0.140	0.030	-0.055	-0.130	0.015	0.1
3	49	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-0.1
3	43	-0.040	-0.055	-0.055	-0.125	-0.150	-0.150	-0.125	-0.195	-0.395	-0.315	-0.430	-0.085	-0.2
4	50	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-0.2
5	34	-0.015	0.010	0.140	0.070	0.070	0.230	0.170	0.005	-0.170	-0.260	-0.215	-0.035	0.1
5	51	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-0.2
5	46	-0.100	-0.130	-0.140	-0.135	-0.105	0.015	-0.115	-0.155	-0.240	-0.285	-0.320	-0.160	-0.1
7	16	-0.095	-0.125	-0.115	-0.280	-0.405	-0.445	-0.465	-0.590	-0.760	-0.510	-0.610	-0.115	-0.5
7	37	-0.010	-0.020	0.050	-0.010	-0.040	0.050	0.025	-0.095	-0.105	-0.150	-0.185	-0.030	-0.0
7	53	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-0.1
7	60	-0.005	0.005	0.065	-0.010	-0.055	0.050	0.080	-0.060	-0.160	-0.200	-0.245	-0.080	0.0
8	54	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.2
8	59	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-0.1
8	1	0.010	-0.060	0.030	-0.040	-0.080	0.040	-0.025	0.005	-0.190	-0.230	-0.300	-0.080	0.0
8	19	-0.130	-0.170	-0.150	-0.365	-0.485	-0.520	-0.515	-0.670	-0.905	-0.655	-0.680	-0.230	-0.7
8	61	-0.005	0.005	0.075	-0.030	-0.010	0.065	0.095	-0.035	-0.115	-0.155	-0.200	-0.035	0.0
10	56	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0
11	57	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-0.0
11	4	0.000	0.010	0.070	0.075	0.110	0.135	0.225	0.110	0.065	-0.055	-0.055	0.045	0.1
11	25	-0.105	-0.140	-0.120	-0.255	-0.315	-0.280	-0.275	-0.370	-0.515	-0.390	-0.465	-0.065	-0.3
11	62	0.030	-0.040	0.035	-0.075	-0.140	-0.120	-0.140	-0.250	-0.295	-0.195	-0.245	-0.070	-0.1
12	58	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-0.1
13	55	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-0.1
13	7	0.020	0.070	0.080	0.065	0.110	0.185	0.250	0.145	0.045	-0.055	-0.145	0.050	0.1
13	22	0.000	-0.005	-0.015	-0.090	-0.075	-0.065	-0.045	-0.155	-0.270	-0.120	-0.235	0.040	-0.1
13	63	-0.070	-0.055	-0.020	-0.140	-0.185	-0.170	-0.135	-0.285	-0.425	-0.335	-0.375	-0.110	-0.3
14	52	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0

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ERMITTELTE BETONTRAJEKTORIENDEHNUG IN PROMILLE

****

BELASTUNGSGRAD M/MU

SCHNITT	MESSTELLE	0.857	0.857	0.857	0.857	0.857	0.857	0.000	0.000	0.000	0.000	0.000	0.000	0.
		7	9	11	13	15	16							
1	10	-0.075	-0.185	-0.270	-0.440	-0.590	-0.690							
1	28	0.310	0.175	-0.070	-0.375	-0.480	-0.625							
1	47	-0.175	-0.255	-0.460	-0.430	-0.595	-0.710							
1	40	-0.645	-0.760	-0.850	-1.110	-1.330	-1.490							
2	48	-0.140	-0.225	-0.370	-0.520	-0.655	-0.815							
3	13	-0.295	-0.365	-0.480	-0.630	-0.740	-0.810							
3	31	-0.015	-0.125	-0.315	-0.530	-0.600	-0.665							
3	49	-0.180	-0.370	-0.595	-0.845	-0.960	-1.125							
3	43	-0.560	-0.705	-0.870	-0.995	-1.055	-1.175							
4	50	-0.235	-0.360	-0.580	-0.975	-1.245	-1.345							
5	34	-0.140	-0.315	-0.565	-1.015	-1.270	-1.500							
5	51	-0.285	-0.365	-0.560	-0.895	-1.070	-1.275							
5	46	-0.295	-0.435	-0.575	-0.730	-0.870	-1.030							
7	16	-0.765	-0.930	-1.230	-1.770	-2.105	-2.320							
7	37	-0.220	-0.245	-0.485	-0.720	-0.880	-1.005							
7	53	-0.140	0.000	-0.550	-0.935	-1.200	-1.530							
7	60	-3.590	-3.720	-3.835	-4.140	-4.270	-4.390							
8	54	0.200	0.090	-0.060	-0.290	-0.385	-0.465							
8	59	-0.140	-0.310	-0.505	-0.740	-0.940	-0.980							
8	1	-0.140	-0.335	-0.455	-0.955	-1.200	-1.155							
8	19	-0.855	-0.980	-1.290	-1.835	-2.250	-2.445							
8	61	-0.230	-0.350	-0.455	-0.715	-0.885	-1.040							
10	56	0.030	-0.015	-0.070	-0.360	-0.460	-0.615							
11	57	-0.020	-0.225	-0.395	-0.510	-0.520	-0.585							
11	4	-0.025	-0.140	-0.325	-0.550	-0.670	-0.660							
11	25	-0.555	-0.660	-0.800	-1.040	-1.285	-1.430							
11	62	-0.510	-0.605	-0.850	-1.230	-1.370	-1.495							
12	58	-0.180	-0.250	-0.495	-0.640	-0.640	-0.780							
13	55	-0.135	-0.245	-0.445	-0.745	-0.845	-0.930							
13	7	0.015	-0.130	-0.235	-0.440	-0.495	-0.605							
13	22	-0.325	-0.395	-0.490	-0.590	-0.670	-0.730							
13	63	-0.465	-0.570	-0.725	-1.035	-1.145	-1.240							
14	52	-0.045	0.040	-0.185	-0.370	-0.415	-0.550							

****

ERMITTELTE BETONTRAJEKTORIENDEHNUG IN PROMILLE

****

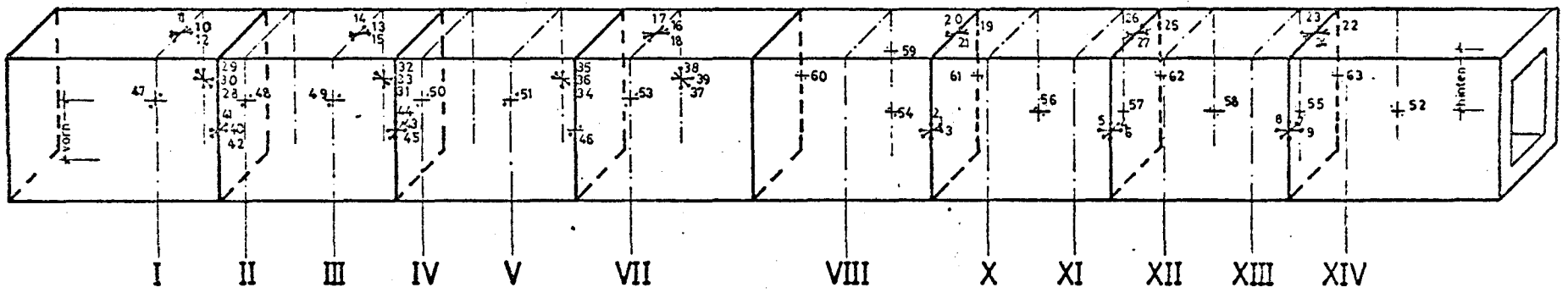
BELASTUNGSGRAD M/MU

SCHNITT	MESSTELLE	0.000	0.229	0.343	0.571	0.629	0.743	0.857	0.857 1	0.857 3	0.857 6	0.400 1	0.400 3	0.000 5
1	10	0.030	-0.060	0.020	0.045	-0.055	-0.070	-0.020	0.020	-0.075	-0.150	-0.260	-0.305	-0.005
1	28	-0.130	-0.100	-0.055	0.100	0.170	0.075	0.215	0.220	0.150	0.055	-0.055	-0.125	-0.045
1	47	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1	40	-0.265	-0.275	-0.270	-0.210	-0.315	-0.395	-0.370	-0.435	-0.510	-0.705	-0.615	-0.750	-0.355
2	48	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3	13	-0.045	-0.125	-0.100	-0.100	-0.185	-0.240	-0.205	-0.165	-0.290	-0.410	-0.310	-0.370	-0.045
3	31	-0.210	-0.205	-0.130	-0.085	-0.130	-0.090	0.025	0.000	-0.070	-0.180	-0.265	-0.340	-0.195
3	49	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3	43	-0.275	-0.315	-0.330	-0.330	-0.400	-0.425	-0.425	-0.400	-0.470	-0.670	-0.590	-0.705	-0.550
4	50	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5	34	-0.250	-0.265	-0.240	-0.110	-0.180	-0.180	-0.020	-0.080	-0.245	-0.420	-0.510	-0.465	-0.285
5	51	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5	46	-0.165	-0.265	-0.295	-0.305	-0.300	-0.270	-0.150	-0.280	-0.320	-0.405	-0.450	-0.485	-0.325
7	16	-0.170	-0.265	-0.295	-0.285	-0.450	-0.575	-0.615	-0.635	-0.760	-0.930	-0.680	-0.780	-0.285
7	37	-0.190	-0.200	-0.210	-0.140	-0.200	-0.230	-0.140	-0.165	-0.285	-0.295	-0.340	-0.375	-0.225
7	53	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7	60	-3.590	-3.595	-3.585	-3.525	-3.600	-3.645	-3.540	-3.510	-3.650	-3.750	-3.790	-3.835	-3.670
8	54	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
8	59	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
8	1	-0.155	-0.145	-0.215	-0.125	-0.195	-0.235	-0.115	-0.180	-0.150	-0.345	-0.385	-0.455	-0.235
8	19	-0.155	-0.285	-0.325	-0.305	-0.520	-0.640	-0.675	-0.670	-0.825	-1.060	-0.790	-0.855	-0.385
8	61	-0.265	-0.270	-0.260	-0.190	-0.295	-0.275	-0.200	-0.170	-0.300	-0.380	-0.420	-0.465	-0.300
10	56	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11	57	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11	4	-0.210	-0.210	-0.200	-0.140	-0.135	-0.100	-0.075	0.015	-0.100	-0.145	-0.265	-0.265	-0.165
11	25	-0.150	-0.255	-0.290	-0.270	-0.405	-0.465	-0.430	-0.425	-0.520	-0.665	-0.540	-0.615	-0.215
11	62	-0.345	-0.315	-0.385	-0.310	-0.420	-0.485	-0.465	-0.485	-0.595	-0.640	-0.540	-0.590	-0.415
12	58	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
13	55	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
13	7	-0.160	-0.140	-0.090	-0.080	-0.095	-0.050	0.025	0.090	-0.015	-0.115	-0.215	-0.305	-0.135
13	22	-0.170	-0.170	-0.175	-0.185	-0.260	-0.245	-0.235	-0.215	-0.325	-0.440	-0.290	-0.405	-0.135
13	63	-0.150	-0.220	-0.205	-0.170	-0.290	-0.335	-0.320	-0.285	-0.435	-0.575	-0.485	-0.525	-0.280
14	52	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

H Betonranddehnungen (graphische Form)

Betondehnung in Querrichtung des Versuchsbalkens SETMQ 1

ohne Berücksichtigung der Vorspannung



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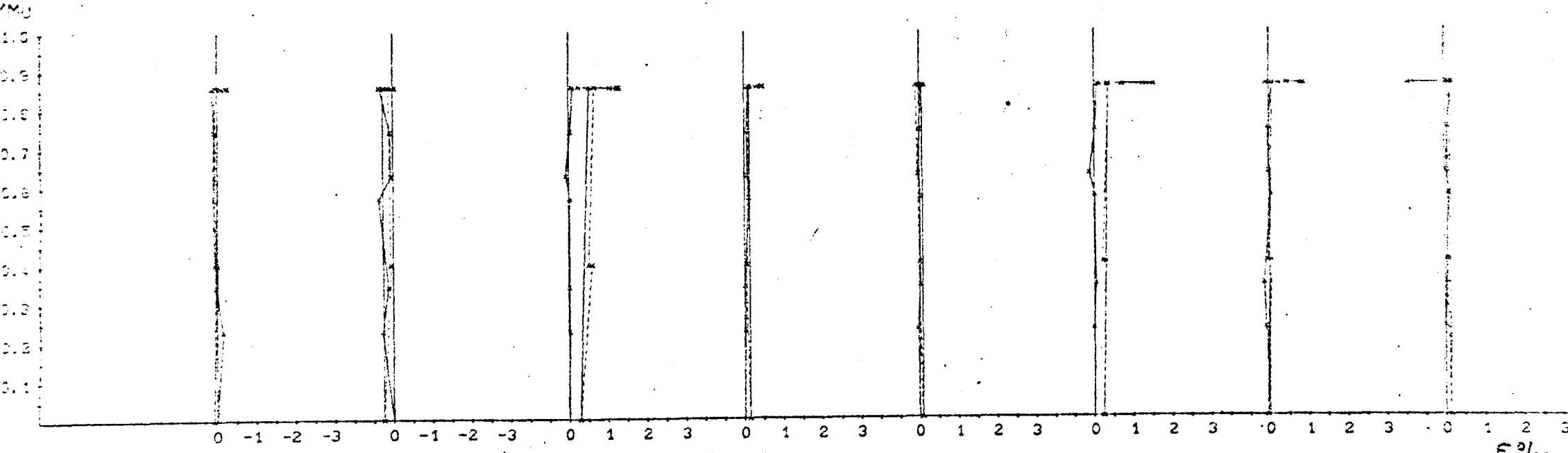
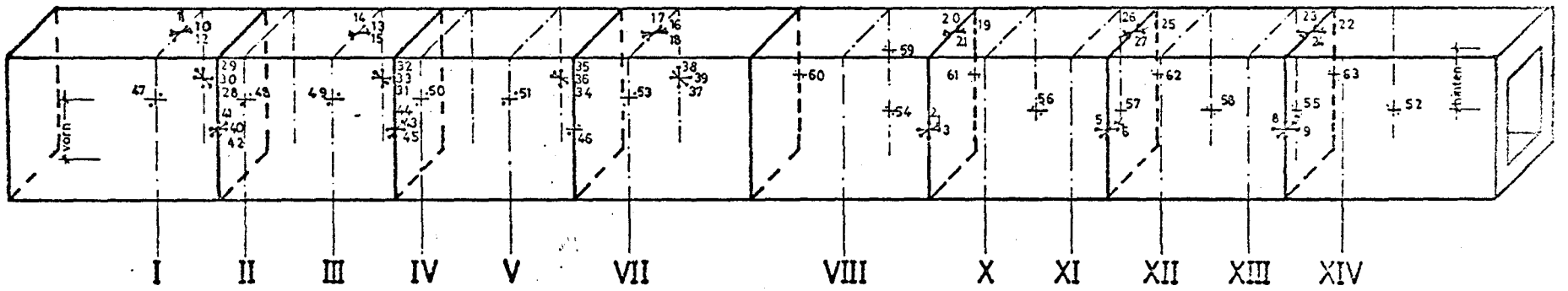
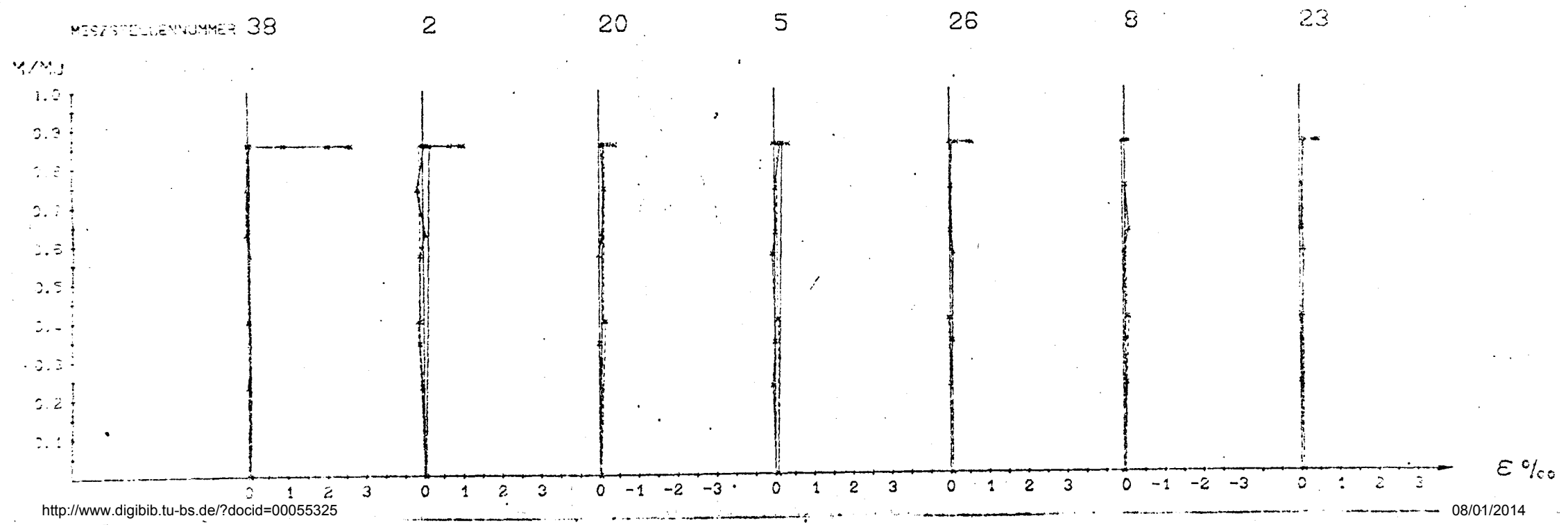


Betondehnung in Querrichtung des Versuchsbalkens SETMQ 1

ohne Berücksichtigung der Vorspannung





Betondehnung in Längsrichtung des Versuchsbalkens SETMQ 1

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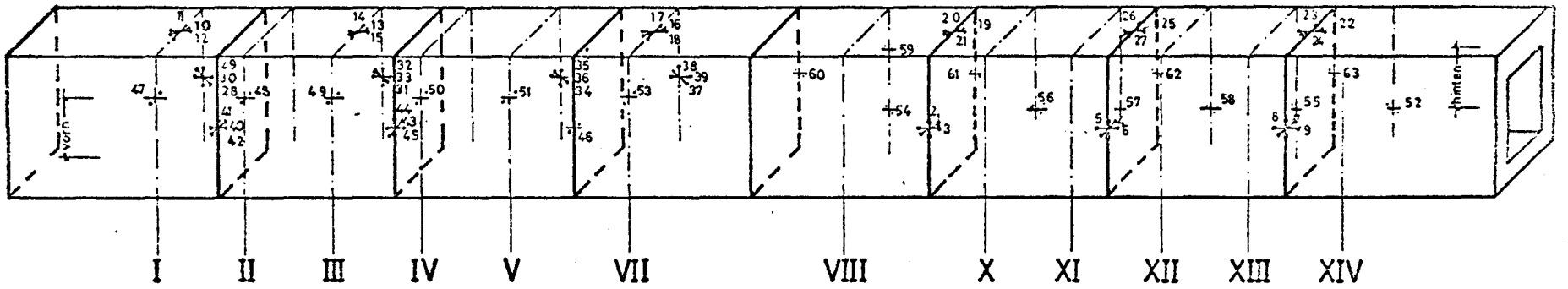
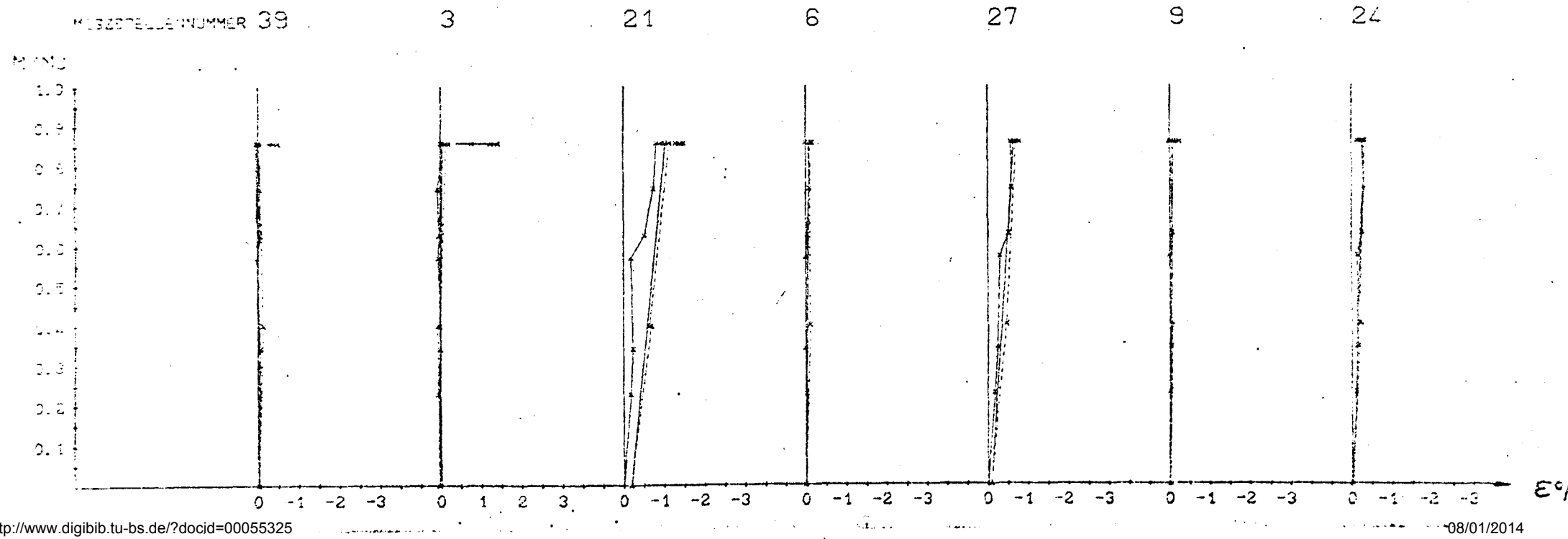
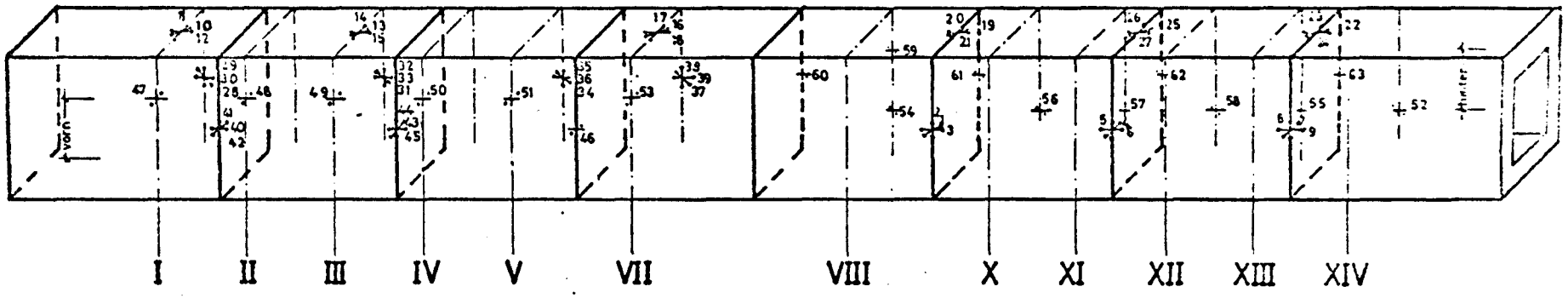
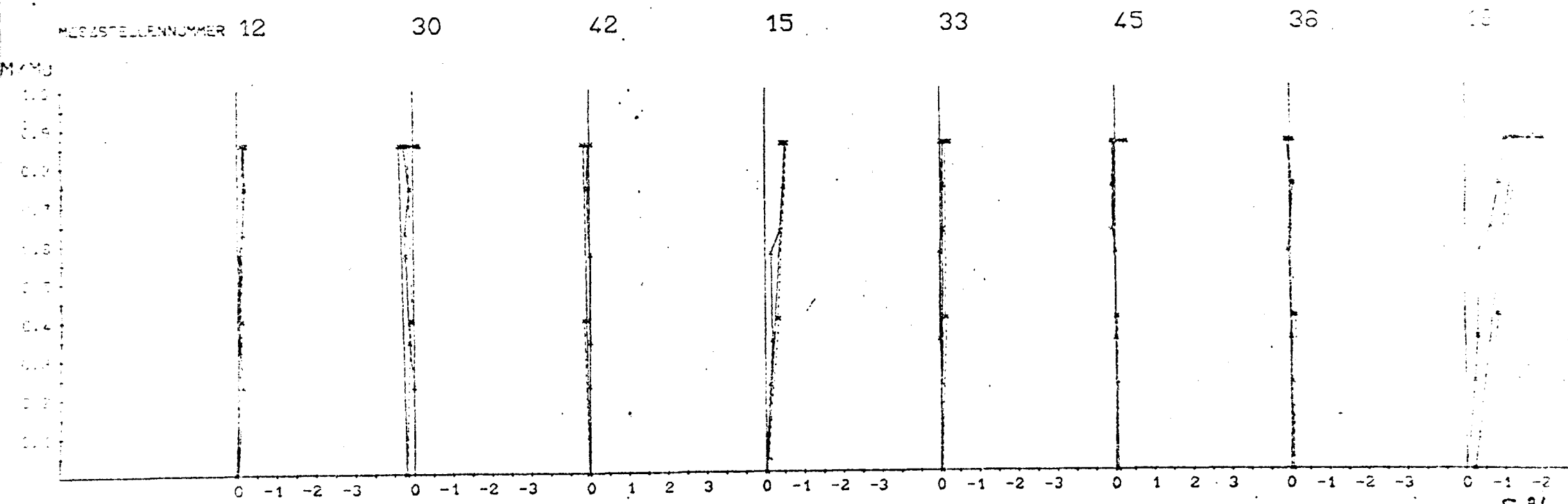




Betondehnung in Längsrichtung des Versuchsbalkens SETMQ 1

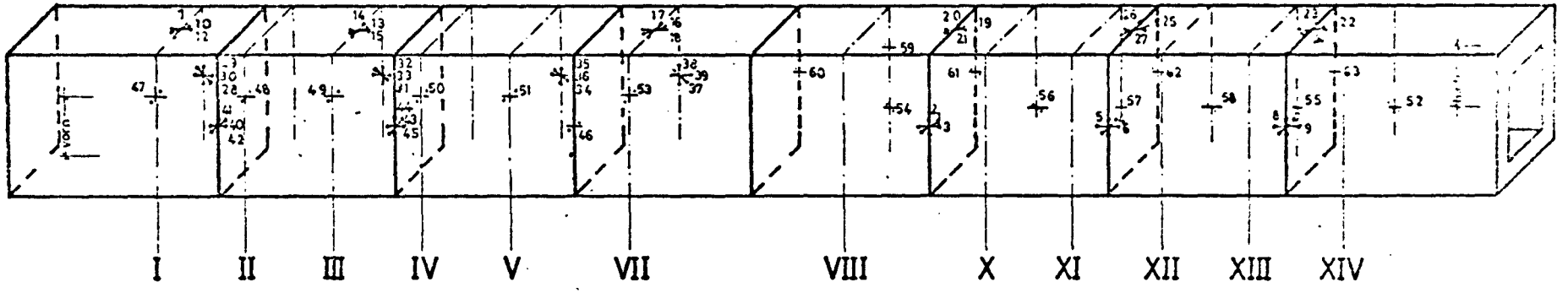
ohne Berücksichtigung der Vorspannung

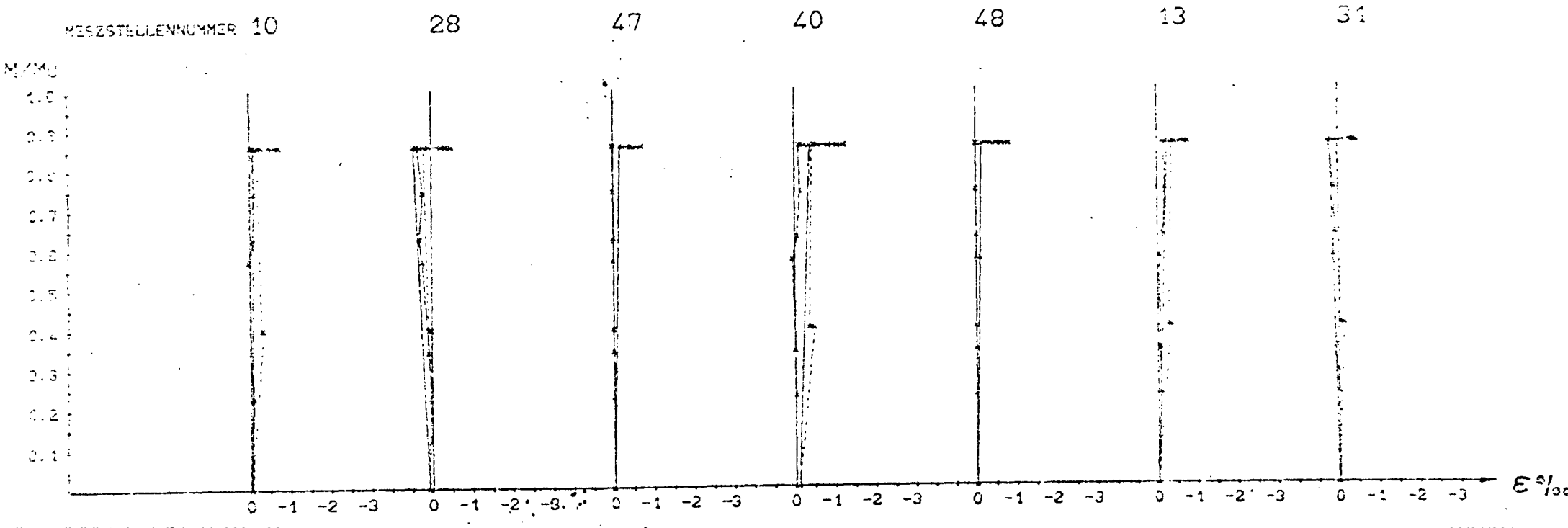




Betondehnung in Trajektorienrichtung des Versuchsbalkens SETMQ 1

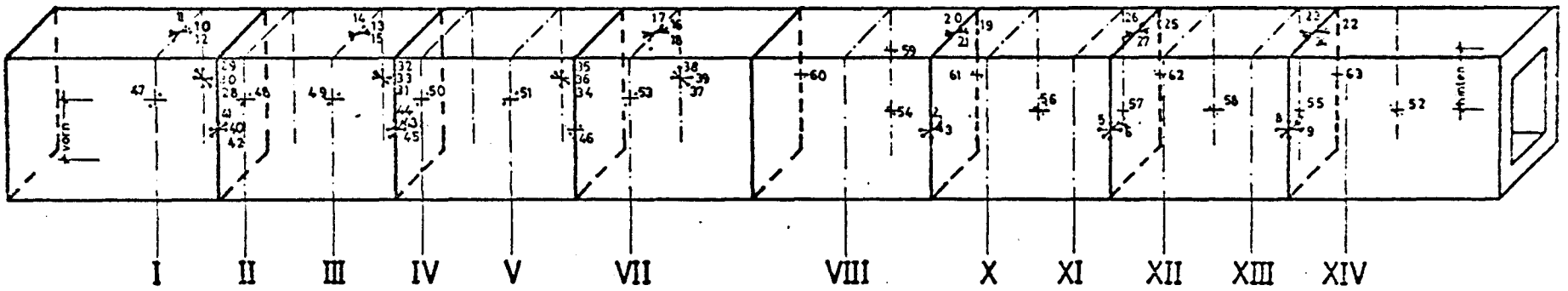
ohne Berücksichtigung der Vorspannung

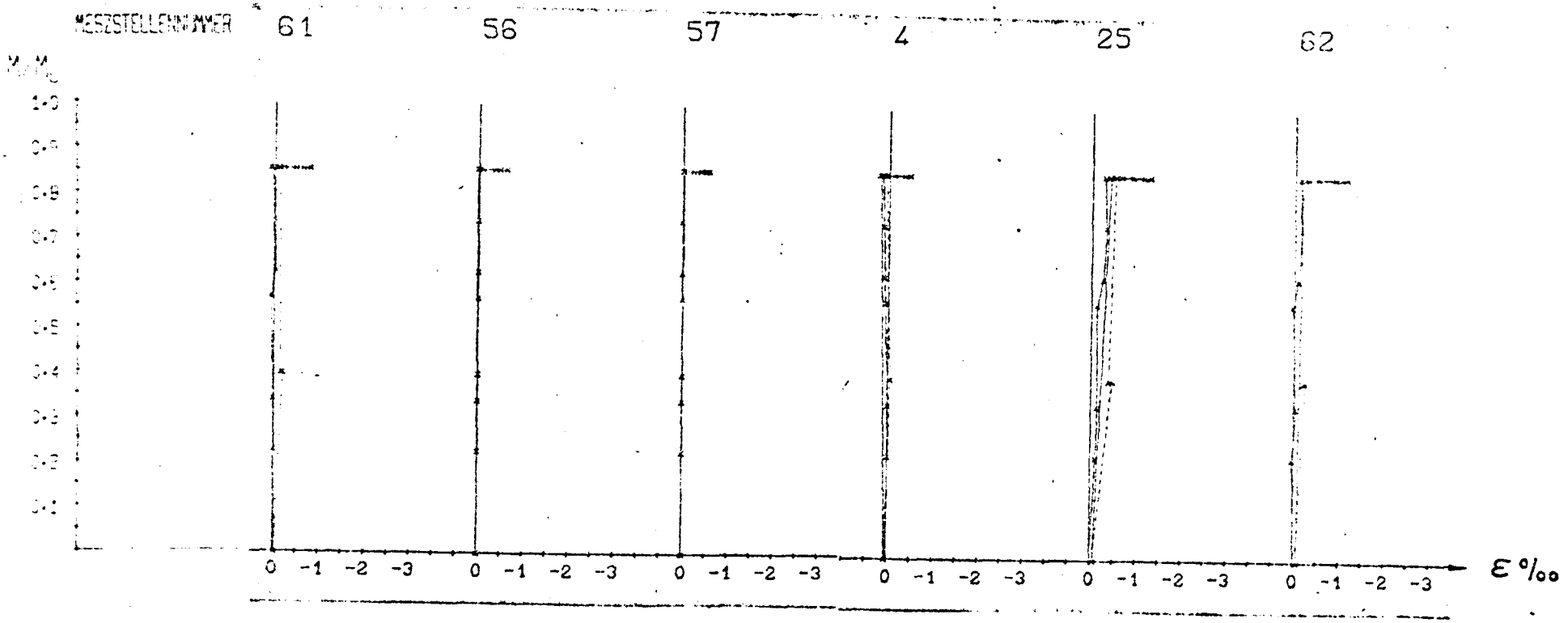




Betondehnung in Trajektorienrichtung des Versuchsbalkens SETMQ 1

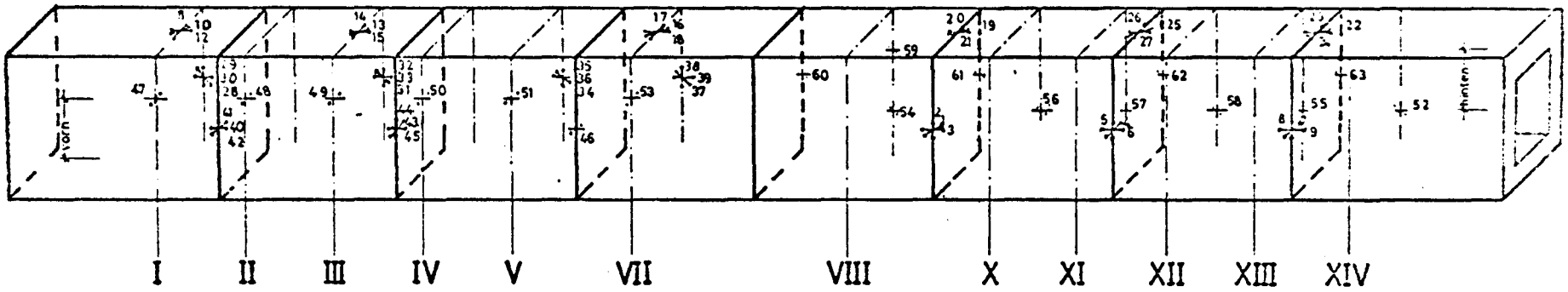
ohne Berücksichtigung der Vorspannung

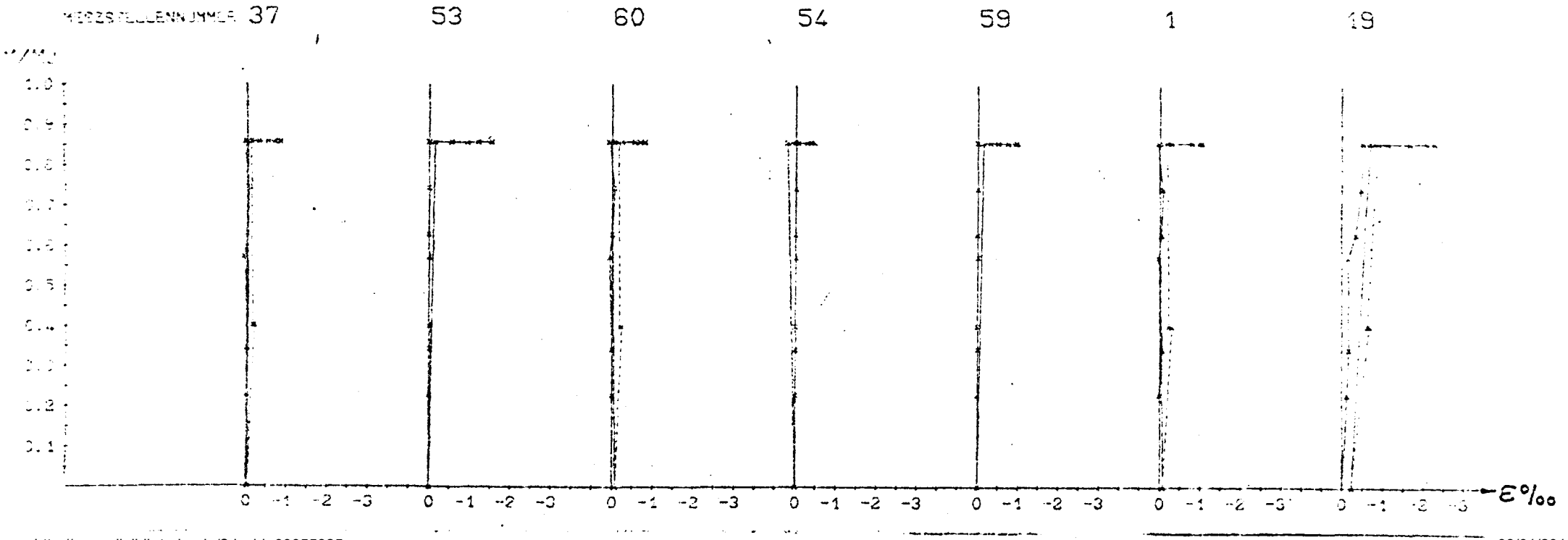




Betondehnung in Trajektorienrichtung des Versuchsbalkens SETMQ1

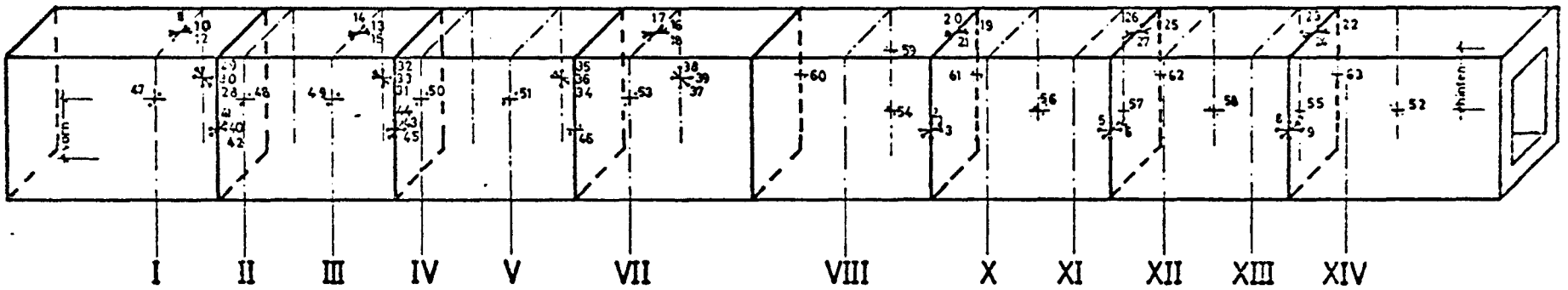
ohne Berücksichtigung der Vorspannung

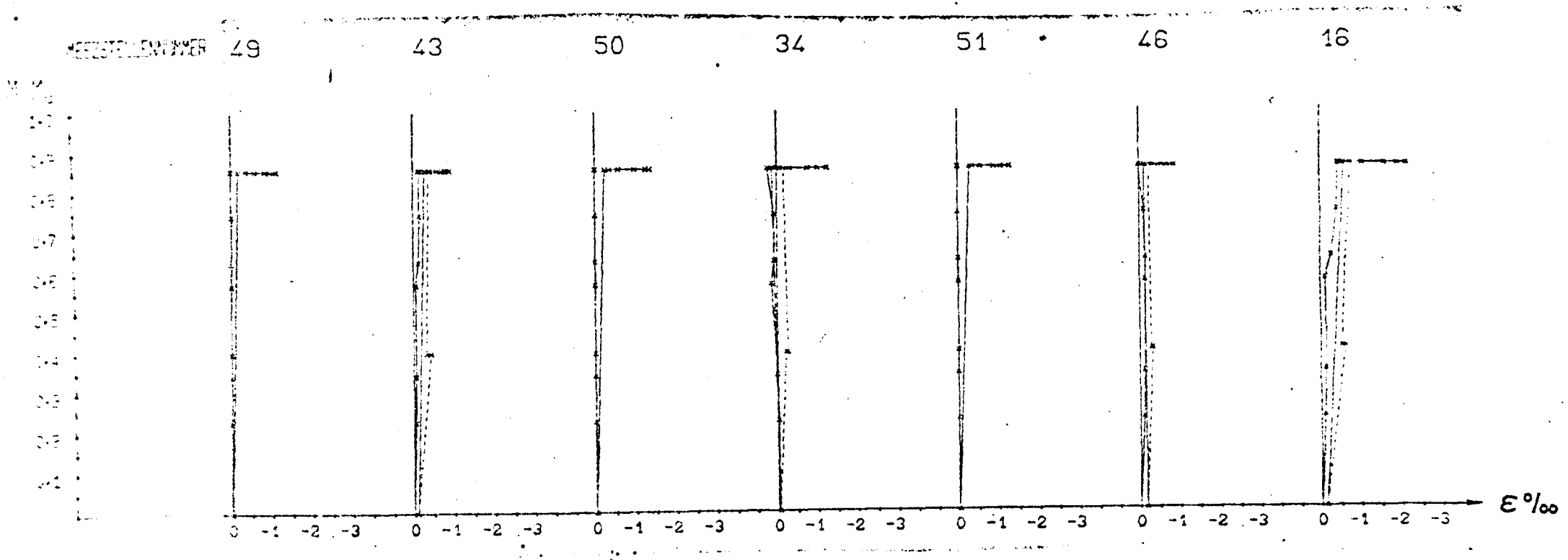




Betondehnung in Trajektorienrichtung des Versuchsbalkens SETMQ 1

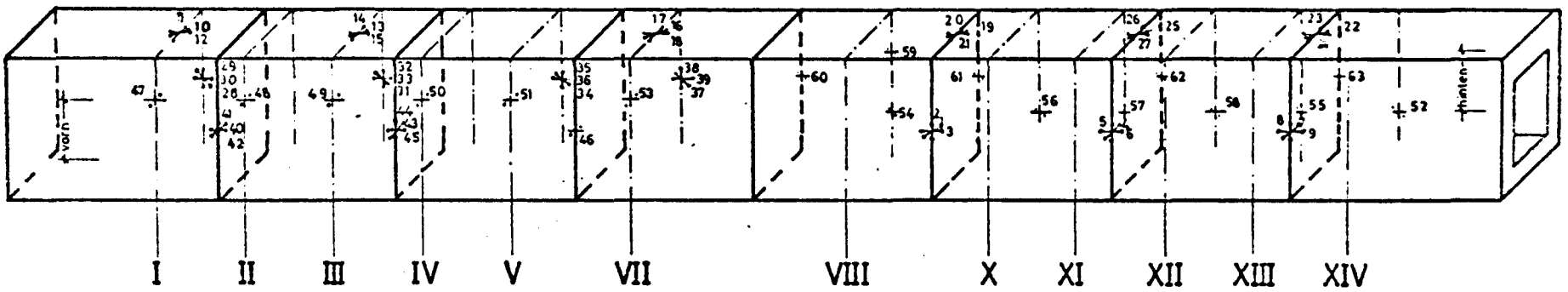
ohne Berücksichtigung der Vorspannung

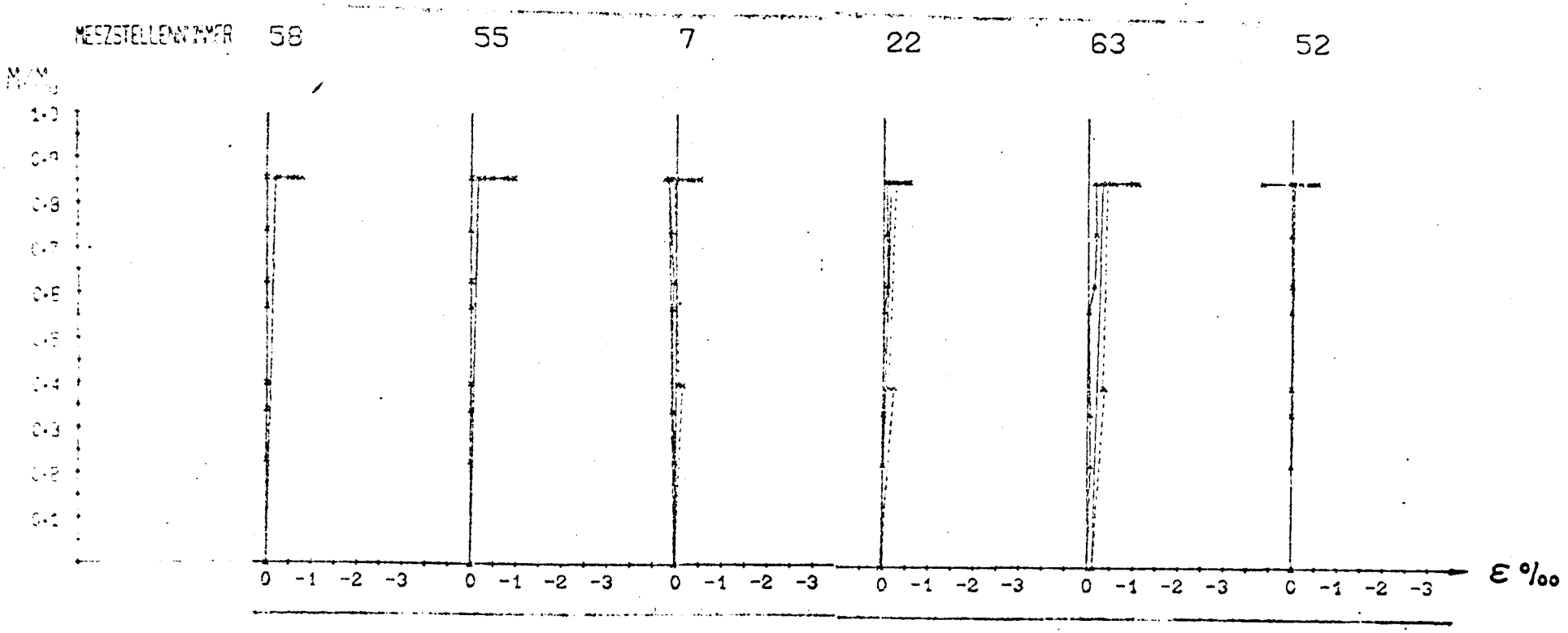




Betondehnung in Trajektorienrichtung des Versuchsbalkens SETMQ 1

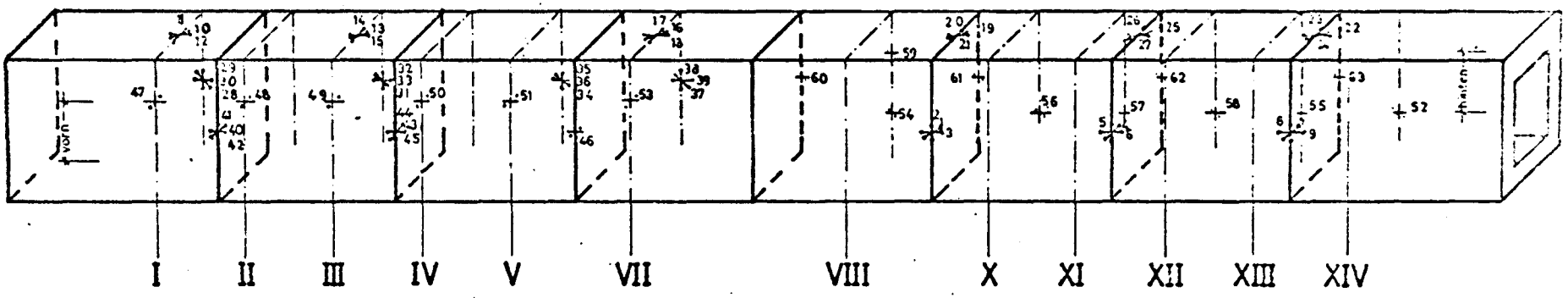
ohne Berücksichtigung der Vorspannung

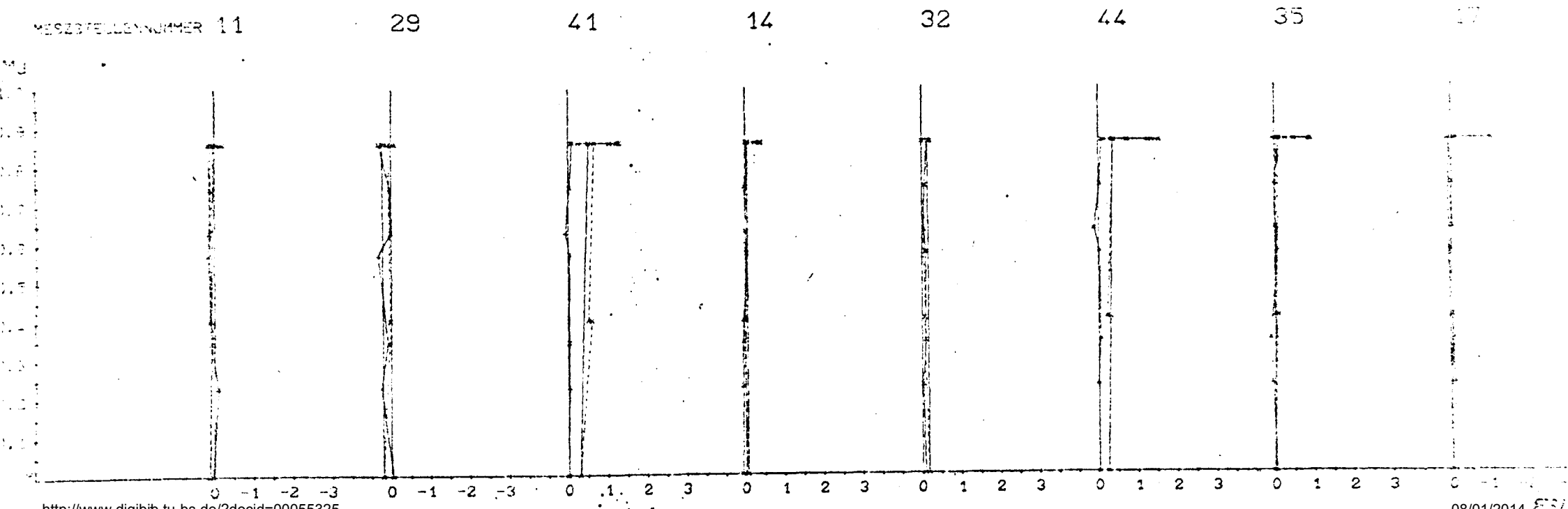




Betondehnung in Querrichtung des Versuchsbalkens SETMQ 1

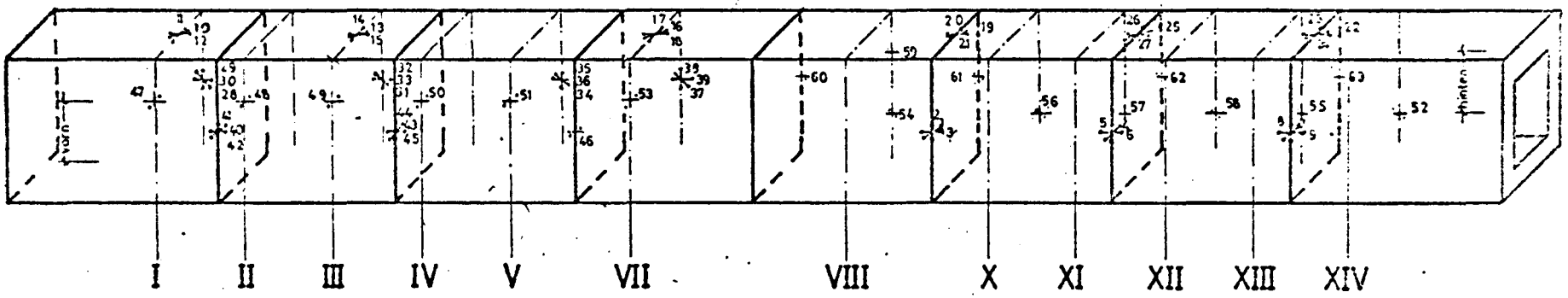
unter Berücksichtigung der Vorspannung

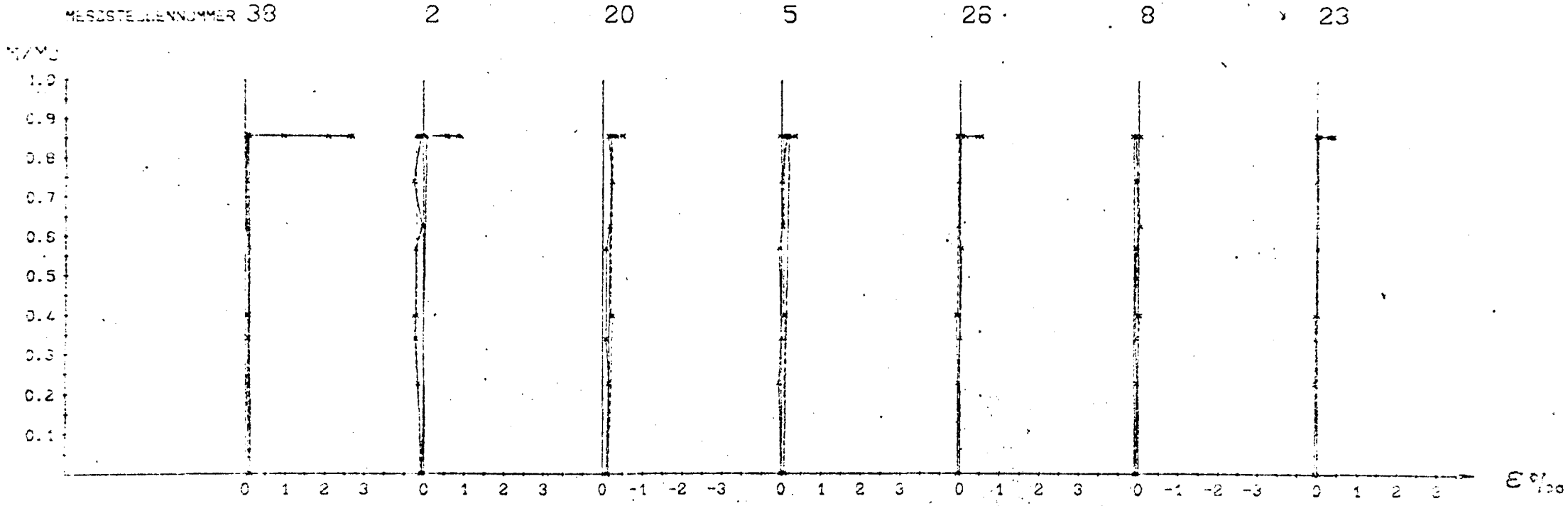




Betondehnung in Querrichtung des Versuchsbalkens SETMQ 1

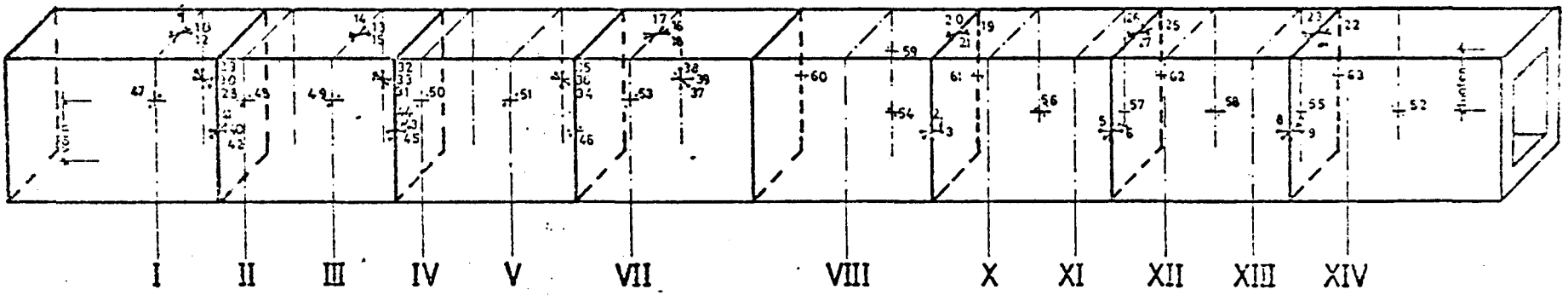
unter Berücksichtigung der Vorspannung

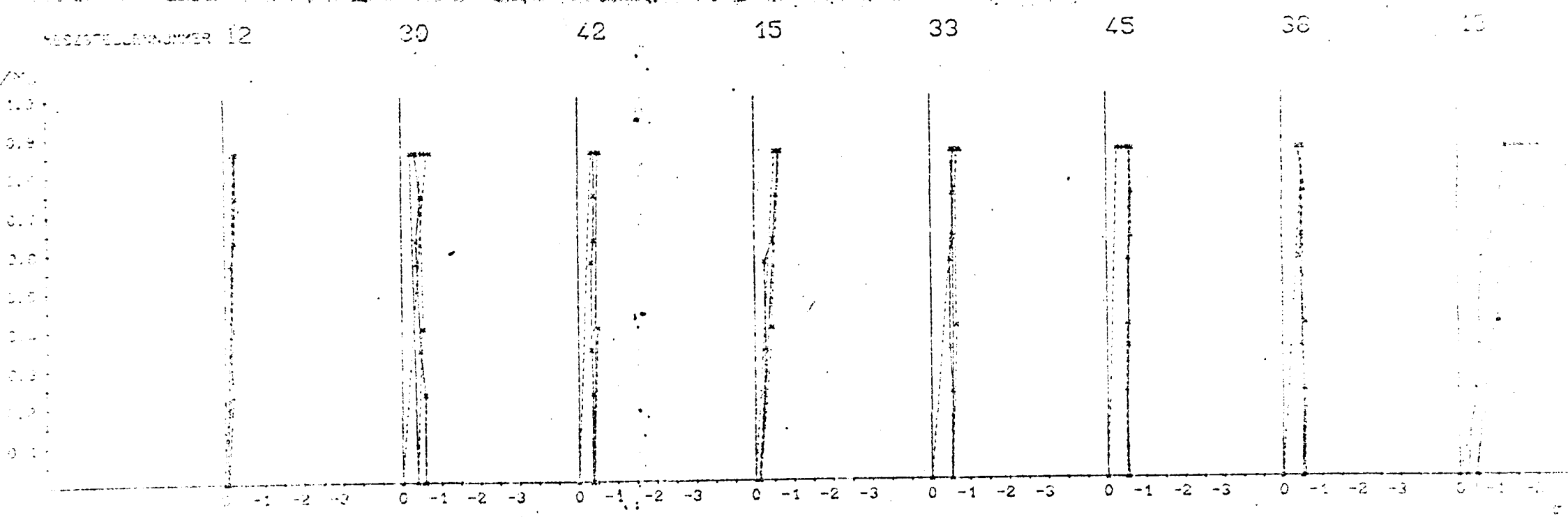




Betondehnung in Längsrichtung des Versuchsbalkens SETMQ 1

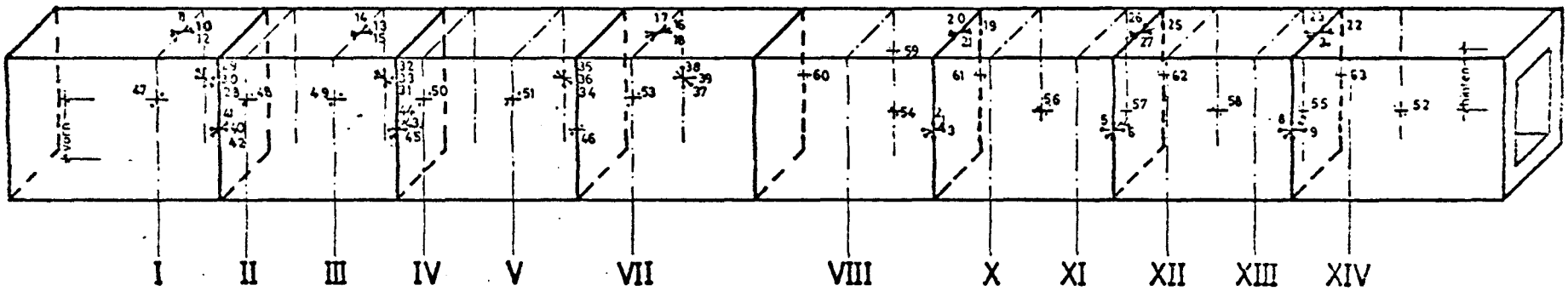
unter Berücksichtigung der Vorspannung

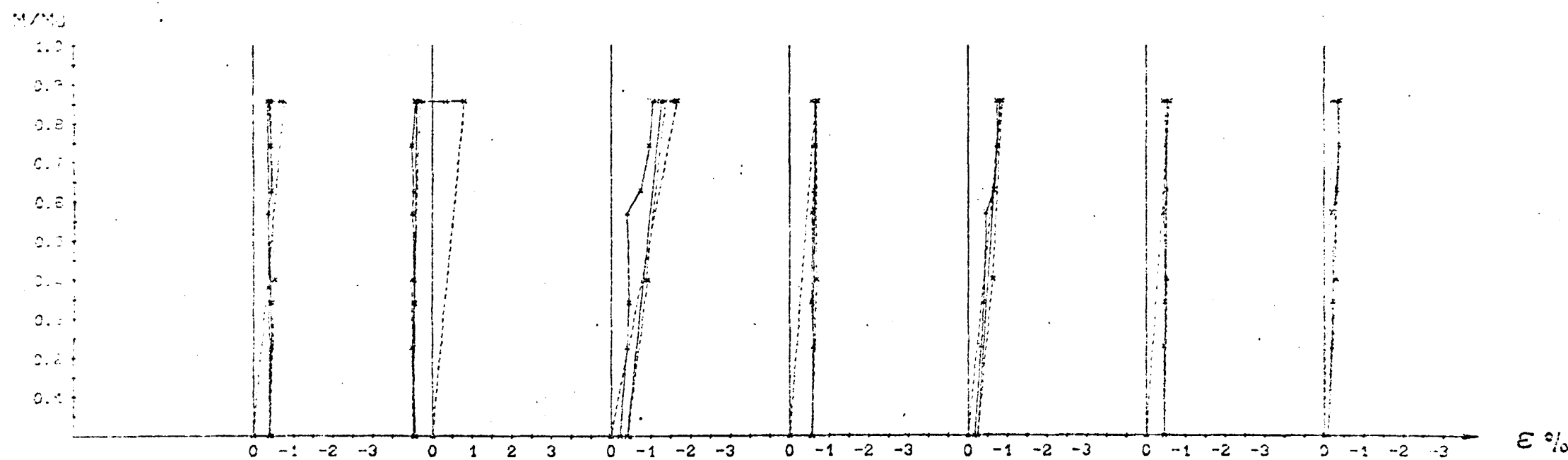




Betondehnung in Längsrichtung des Versuchsbalkens SETMQ 1

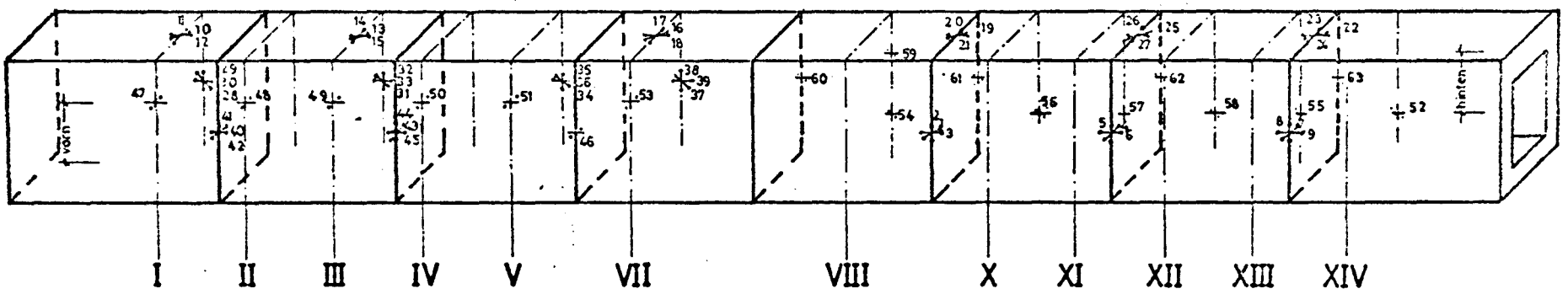
unter Berücksichtigung der Vorspannung

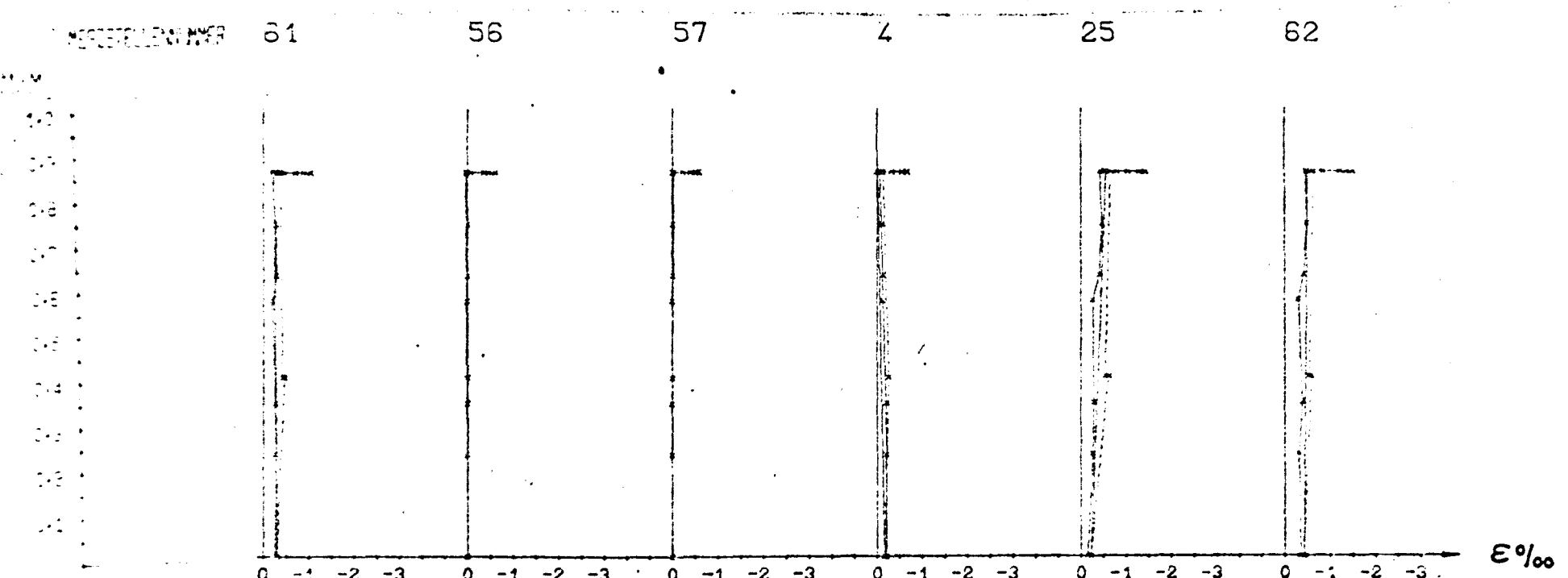




Betondehnung in Trajektorienrichtung des Versuchsbalkens SETMQ 1

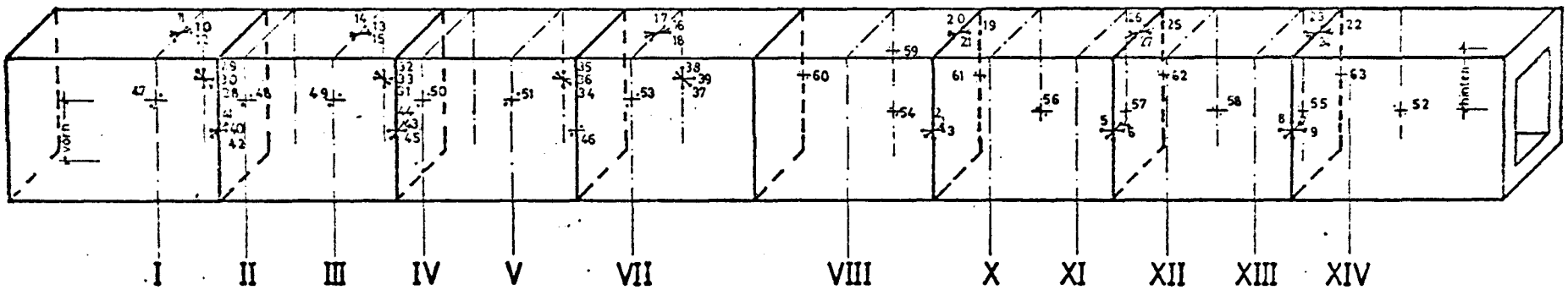
unter Berücksichtigung der Vorspannung

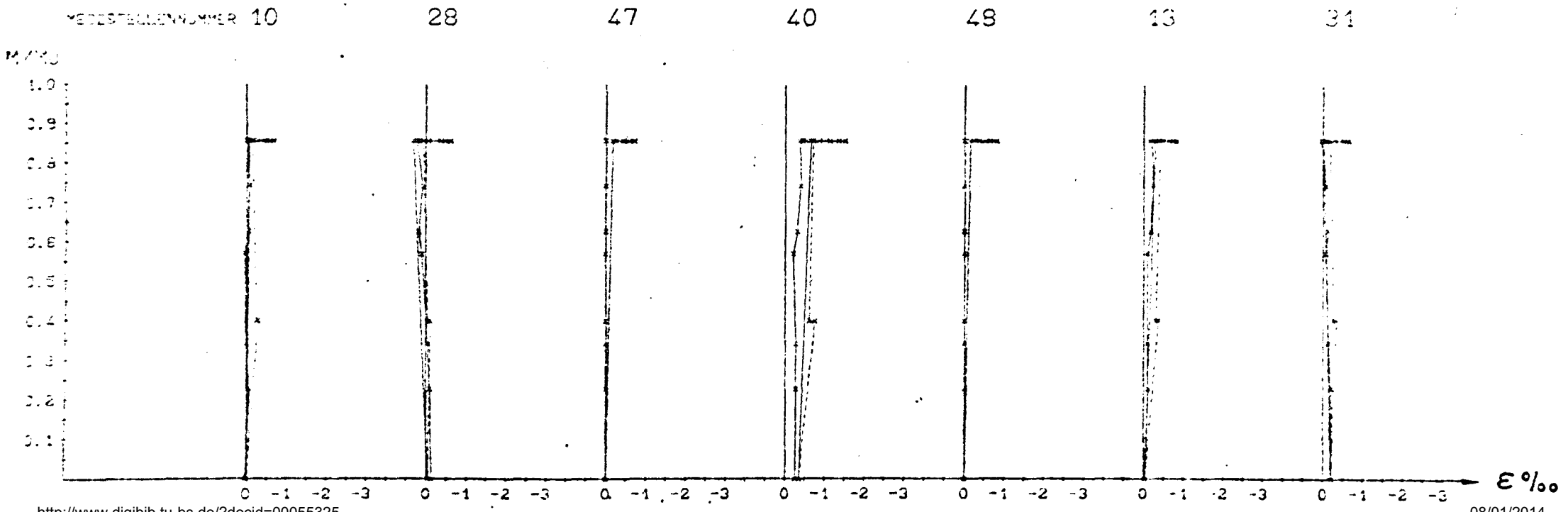




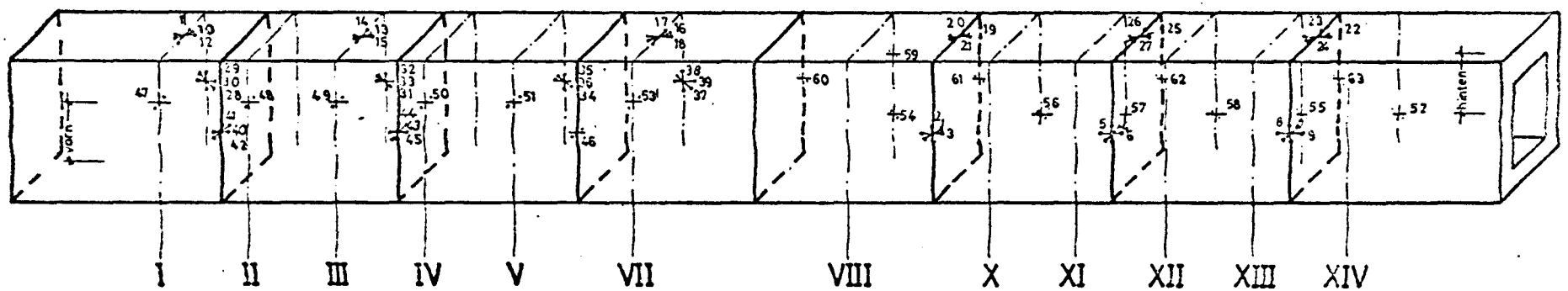
Betondehnung in Trajektorienrichtung des Versuchsbalkens SETMQ 1

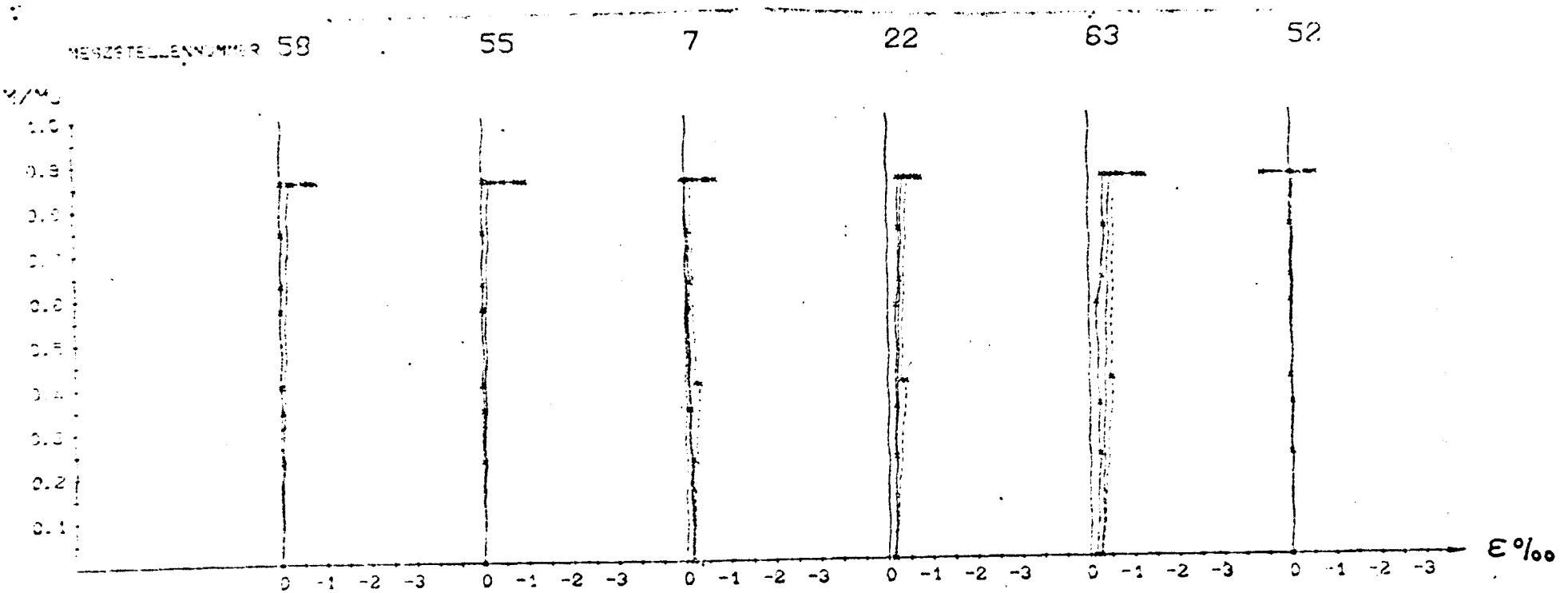
unter Berücksichtigung der Vorspannung





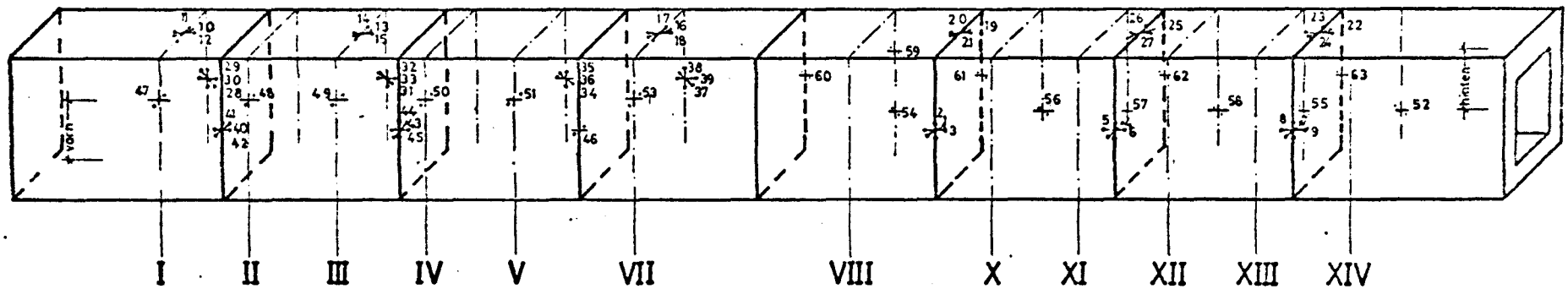
Betondehnung in Trajektorienrichtung des Versuchsbalkens SETMQ 1 unter Berücksichtigung der Vorspannung

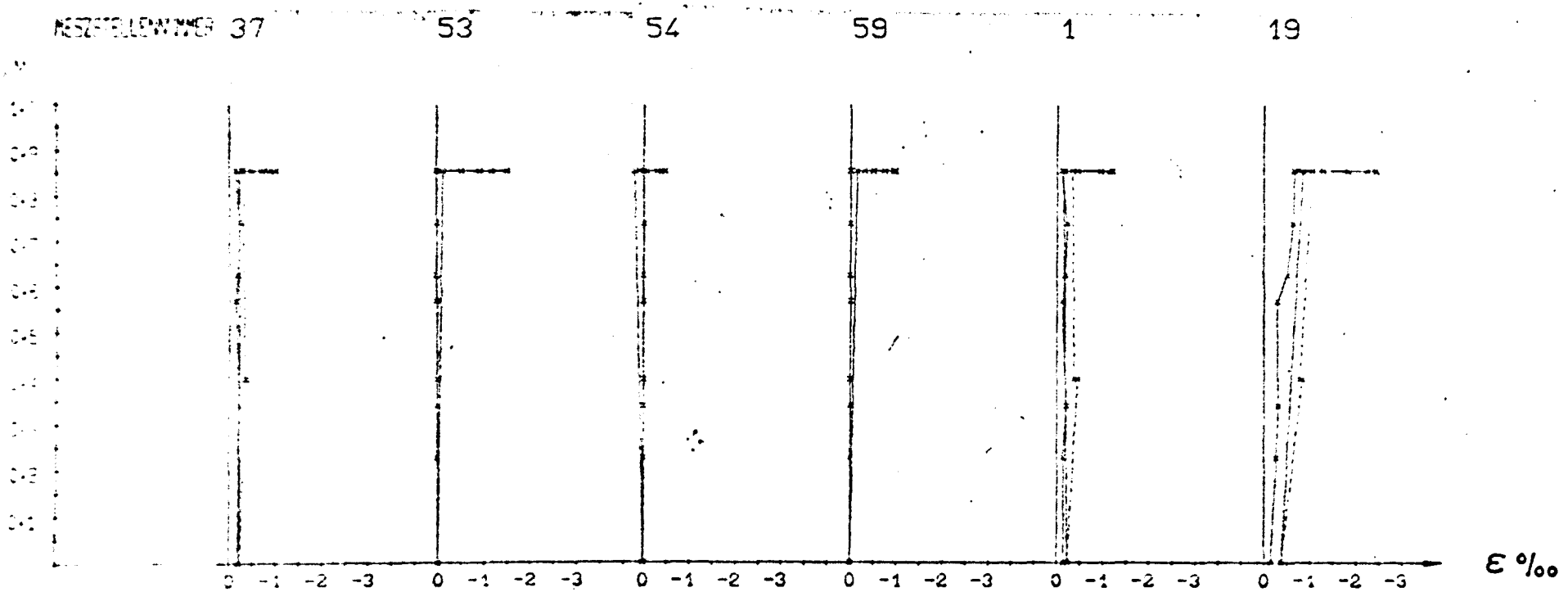




Betondehnung in Trajektorienrichtung des Versuchsbalkens SETMQ 1

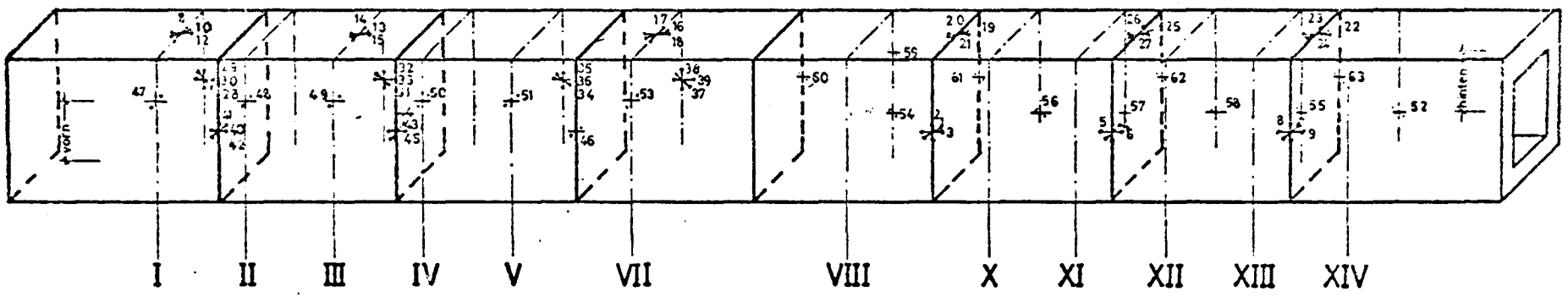
unter Berücksichtigung der Vorspannung

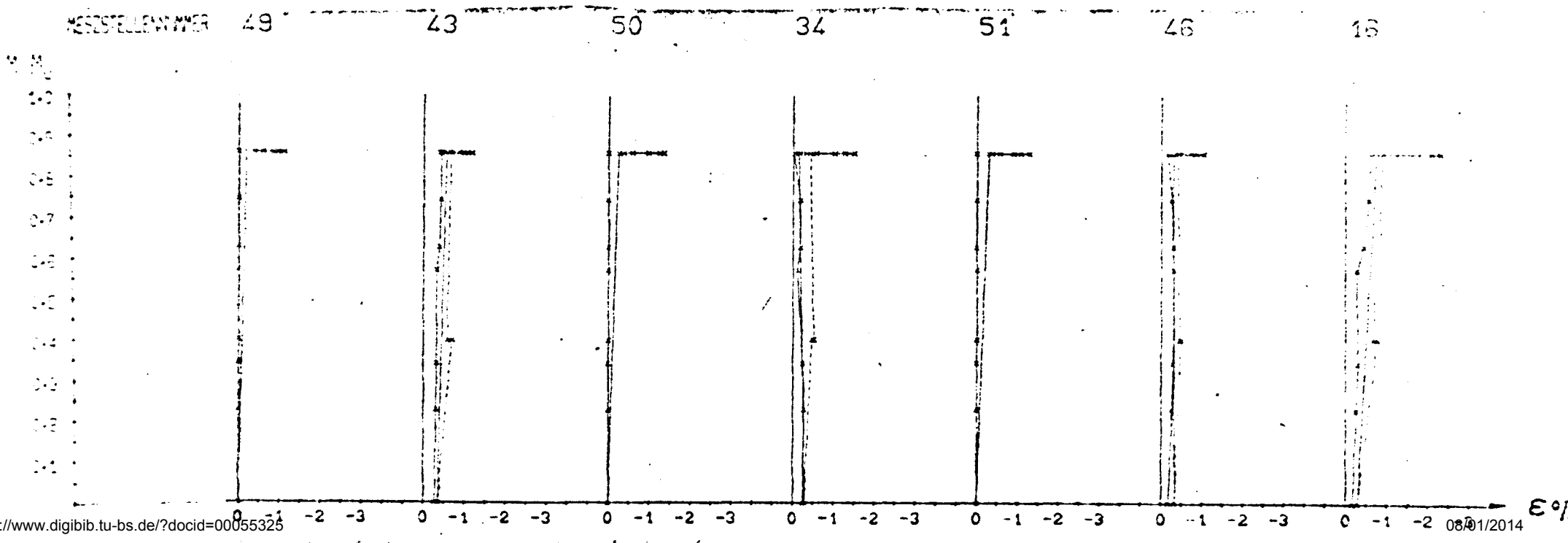




Betondehnung in Trajektorienrichtung des Versuchsbalkens SETMQ 1

unter Berücksichtigung der Vorspannung





Betonhauptdehnungen

VERSUCHSBALKEN SETMQ1 GEPRUEFT AM 19. 5. 1978

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HAUPTDEHNUNGEN DES BETONS

1. ZEILE = EPSILON MAX IN PROMILLE
2. ZEILE = EPSILON MIN IN PROMILLE
3. ZEILE = WINKEL ZWISCHEN EPSILON MIN UND DER LAENGSACHSE

BELASTUNGSGRAD M/MU

SCHNITT	LAGE	0.857	0.857	0.857	0.857	0.857	0.857	0.000	0.000	0.000	0.000	0.000	0.000	0.000
		7	9	11	13	15	16							
1	HINTEN	0.380	0.363	0.276	0.120	0.152	-0.015							
		-0.595	-0.378	-0.556	-0.740	-0.702	-0.780							
		-27.489	-14.753	-4.844	4.348	14.332	18.248							
3	HINTEN	0.201	0.120	0.070	0.116	0.302	0.354							
		-0.631	-0.700	-0.725	-0.796	-0.817	-0.889							
		-14.360	-11.875	-0.901	12.300	18.870	19.888							
5	HINTEN	0.113	0.071	0.561	1.151	1.746	1.995							
		-0.473	-0.511	-0.671	-1.121	-1.431	-1.660							
		-3.927	9.529	27.961	32.507	31.980	32.927							
7	HINTEN	0.117	0.103	1.314	2.718	3.420	3.536							
		-0.577	-0.428	-0.759	-1.298	-1.560	-1.721							
		10.685	9.047	23.673	22.702	23.314	23.348							
1	HINTEN	0.033	0.061	0.019	0.137	0.091	0.210							
		-0.238	-0.271	-0.284	-0.467	-0.591	-0.695							
		-5.865	14.443	32.778	32.778	42.897	40.711							
3	HINTEN	0.050	0.047	0.113	0.507	0.728	0.787							
		-0.620	-0.642	-0.678	-0.762	-0.878	-0.957							
		0.055	5.655	14.985	26.181	27.957	28.109							
7	HINTEN	0.083	0.081	-0.991	0.233	0.384	0.523							
		-1.468	-1.571	-1.699	-2.168	-2.529	-2.748							
		2.081	6.471	-9.473	20.980	22.570	23.801							

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BELASTUNGSGRAD M/MU

SCHNITT	LAGE	0.857	0.857	0.857	0.857	0.857	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00
		9	11	13	15	16								
1	HINTEN	0.355	0.352	0.297	0.443	0.331								
		0.260	-0.002	-0.287	-0.363	-0.496								
		1.506	20.213	29.518	37.809	42.748								
3	HINTEN	0.103	-0.010	0.107	0.339	0.393								
		-0.248	-0.210	-0.352	-0.419	-0.493								
		-31.900	-1.431	29.625	33.748	33.019								
5	HINTEN	0.096	0.681	1.288	1.870	2.124								
		-0.066	-0.321	-0.788	-1.085	-1.319								
		41.437	40.410	39.020	36.488	36.862								
7	HINTEN	0.063	1.316	2.707	3.411	3.526								
		-0.058	-0.431	-0.957	-1.221	-1.381								
		36.536	28.815	25.047	25.216	25.146								
1	OBEN	0.080	0.090	0.200	0.177	0.290								
		-0.235	-0.300	-0.475	-0.622	-0.720								
		30.296	45.734	40.094	48.051	45.000								
3	OBEN	0.138	0.217	0.624	0.847	0.906								
		-0.558	-0.607	-0.704	-0.822	-0.901								
		9.217	17.809	27.557	28.988	29.056								
7	OBEN	0.156	-0.894	0.308	0.461	0.600								
		-1.566	-1.516	-1.963	-2.326	-2.545								
		5.876	-13.901	21.430	23.009	24.240								

HAUPTDEHNUNGEN DES BETONS

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BELASTUNGSGRAD M/MU

SCHNITT	LAGE	0.857	0.857	0.857	0.857	0.857	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0
		9	11	13	15	16								
8	OBEN	-0.179	-0.140	0.043	0.372	0.483								
		-1.156	-1.415	-1.818	-2.202	-2.393								
		9.403	17.063	29.201	33.211	34.081								
11	OBEN	0.044	0.110	0.537	1.091	1.241								
		-0.709	-0.795	-1.012	-1.291	-1.461								
		14.047	21.381	28.693	30.157	30.009								
13	OBEN	0.118	0.222	0.639	0.912	0.875								
		-0.533	-0.422	-0.504	-0.567	-0.625								
		15.700	21.556	29.303	32.714	32.999								
1	VORN	1.127	1.635	2.158	2.494	2.588								
		-0.592	-0.760	-0.993	-1.179	-1.318								
		31.233	29.333	32.470	34.845	36.130								
3	VORN	0.778	1.455	2.269	2.710	2.613								
		-0.453	-0.645	-0.819	-0.895	-0.983								
		37.107	36.128	34.668	34.727	36.261								
8	VORN	0.503	0.598	2.256	3.260	3.448								
		-0.183	-0.303	-0.801	-1.050	-1.008								
		49.731	48.346	45.891	46.863	47.446								
11	VORN	0.161	0.081	0.330	0.547	0.699								
		-0.161	-0.146	-0.360	-0.477	-0.509								
		-12.885	23.395	35.257	37.642	52.248								
13	VORN	0.040	0.020	0.105	0.156	0.173								
		-0.170	-0.120	-0.290	-0.341	-0.513								
		-32.527	10.519	35.283	38.892	38.690								

HAUPTDEHNUNGEN DES BETONS
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BELASTUNGSGRAD M/MU

SCHNITT	LAGE	0.857 (7)	0.857 (9)	0.857 (11)	0.857 (13)	0.857 (15)	0.857 (16)	0.000	0.000	0.000	0.000	0.000	0.000	0.000
8	HINTEN	-0.209	-0.290	-0.262	-0.101	0.220	0.329							
		-1.286	-1.380	-1.628	-2.009	-2.385	-2.574							
		5.759	7.720	15.158	27.406	31.840	32.843							
11	HINTEN	0.013	0.009	0.076	0.500	1.053	1.202							
		-0.823	-0.884	-0.971	-1.185	-1.463	-1.632							
		10.519	14.932	21.146	27.943	29.577	29.501							
13	HINTEN	0.067	0.117	0.230	0.657	0.934	0.897							
		-0.437	-0.477	-0.575	-0.667	-0.734	-0.792							
		16.845	23.182	26.031	31.040	33.716	33.958							
1	HINTEN	0.843	1.116	1.628	2.139	2.463	2.551							
		-0.823	-0.941	-1.113	-1.334	-1.508	-1.641							
		25.912	27.749	26.952	30.296	32.766	34.074							
3	HINTEN	0.534	0.639	1.305	2.123	2.560	2.450							
		-0.784	-0.854	-1.035	-1.213	-1.285	-1.360							
		20.054	26.584	29.581	30.181	30.834	32.255							
8	HINTEN	0.085	-0.012	0.247	1.891	2.885	3.070							
		-0.385	-0.393	-0.477	-0.961	-1.200	-1.155							
		-1.218	21.970	34.907	42.385	44.474	45.170							
11	HINTEN	0.243	0.164	0.040	0.167	0.337	0.526							
		-0.708	-0.734	-0.675	-0.767	-0.837	-0.906							
		-12.946	-9.419	0.601	16.165	22.845	20.518							
13	HINTEN	0.193	0.063	0.070	0.059	0.077	0.075							
		-0.608	-0.588	-0.565	-0.639	-0.657	-0.810							
		-18.895	-12.004	-1.127	12.732	16.953	21.126							

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HAUPTDEHNUNGEN DES BETONS
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BELASTUNGSGRAD M/MU

SCHNITT	LAGE	0.229	0.343	0.571	0.629	0.743	0.857	0.857 / 1	0.857 / 3	0.857 / 6	0.400 / 1	0.400 / 3	0.000 / 3	0.857 / 7
1	HINTEN	0.516	0.145	0.379	0.319	0.206	0.360	0.414	0.281	0.186	0.078	0.117	0.357	0.459
		-0.041	0.075	0.181	-0.039	-0.031	0.225	-0.089	0.119	0.039	0.027	0.003	0.083	0.165
		18.515	40.935	15.233	-58.283	-48.036	-25.505	-65.888	-41.437	-49.891	-30.473	52.628	39.754	-55.807
3	HINTEN	0.007	0.081	0.125	0.080	0.121	0.237	0.217	0.145	0.032	0.000	0.002	0.088	0.206
		-0.072	-0.026	-0.075	-0.155	-0.181	-0.177	-0.167	-0.245	-0.252	-0.120	-0.162	-0.023	-0.201
		-54.217	-49.065	-46.431	-43.174	-42.145	-40.837	-37.458	-38.338	-39.938	-2.382	18.784	9.217	-35.338
5	HINTEN	-0.007	0.034	0.140	0.070	0.072	0.230	0.170	0.014	0.205	0.137	0.165	-0.035	0.115
		-0.123	-0.179	-0.045	-0.095	-0.172	-0.040	-0.070	-0.109	-0.170	-0.262	-0.240	-0.085	-0.003
		-60.482	-64.645	-47.318	-47.597	-40.269	-47.118	-47.382	-60.880	45.382	41.037	30.610	-45.000	-32.778
7	HINTEN	-0.006	0.010	0.052	-0.010	-0.038	0.050	0.046	0.051	0.040	0.069	0.059	0.081	0.100
		-0.064	-0.055	0.013	-0.080	-0.052	-0.055	0.024	-0.096	-0.105	-0.174	-0.204	-0.041	-0.030
		-29.518	-2.199	-33.401	-40.935	-22.500	-43.637	31.717	40.109	42.047	26.683	29.518	27.504	47.199
1	OBEN	-0.089	0.035	0.106	0.107	0.088	0.129	0.039	-0.002	0.093	0.295	0.216	0.147	-0.003
		-0.196	-0.055	-0.046	-0.167	-0.193	-0.159	-0.109	-0.163	-0.233	-0.300	-0.341	-0.037	-0.147
		-51.696	-0.000	5.655	11.875	9.861	7.018	-9.827	8.095	21.255	37.457	39.042	38.736	12.388
3	OBEN	0.025	0.019	0.114	0.085	0.060	0.118	0.153	0.096	0.132	0.113	0.098	0.146	0.134
		-0.130	-0.184	-0.159	-0.375	-0.460	-0.528	-0.473	-0.546	-0.587	-0.368	-0.413	-0.041	-0.529
		10.586	-7.876	6.891	-0.623	-0.551	-4.002	-3.676	1.788	11.233	17.423	20.514	17.057	4.554
7	OBEN	0.012	0.050	0.102	0.061	0.065	0.165	0.190	0.174	0.099	0.101	0.101	0.139	0.161
		-0.242	-0.320	-0.387	-0.671	-0.860	-1.025	-1.125	-1.209	-1.384	-0.841	-0.921	-0.229	-1.256
		-4.545	-1.547	-3.235	-1.959	0.465	0.722	-0.109	3.010	4.557	8.641	11.526	11.190	1.707

HAUPTDEHNUNGEN DES BETONS
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BELASTUNGSGRAD M/MU

SCHNITT	LAGE	0.000	0.229	0.343	0.571	0.629	0.743	0.857	0.857 1	0.857 3	0.857 6	0.400 1	0.400 3	0.000 3
		-0.104	-0.155	-0.100	-0.092	-0.185	-0.239	-0.149	-0.160	-0.188	-0.208	-0.134	-0.185	-0.101
8	HINTEN	-0.231	-0.410	-0.465	-0.418	-0.745	-0.976	-1.056	-1.150	-1.237	-1.422	-0.956	-1.000	-0.449
		-5.655	0.562	6.733	8.939	5.655	2.527	4.601	0.868	6.190	11.909	18.296	16.259	19.567
		-0.034	-0.041	0.032	0.042	-0.024	-0.021	0.033	0.060	0.007	0.017	0.012	0.019	0.045
11	HINTEN	-0.176	-0.344	-0.417	-0.462	-0.661	-0.749	-0.733	-0.735	-0.812	-0.917	-0.682	-0.724	-0.275
		19.645	12.222	12.855	6.880	5.655	6.350	6.021	6.362	8.333	13.694	18.105	22.500	19.330
		0.026	-0.039	-0.004	0.065	0.022	0.001	0.074	0.067	0.069	0.107	0.099	0.079	0.056
13	HINTEN	-0.171	-0.216	-0.231	-0.250	-0.362	-0.391	-0.364	-0.382	-0.459	-0.517	-0.354	-0.444	-0.146
		41.347	14.370	15.265	17.980	13.949	7.372	12.114	7.404	14.738	24.450	22.948	29.142	28.547
		0.024	0.060	0.061	0.049	-0.046	0.126	0.201	0.237	0.483	1.062	0.858	1.027	0.401
1	HINTEN	-0.384	-0.400	-0.376	-0.349	-0.419	-0.496	-0.486	-0.497	-0.633	-0.902	-0.768	-0.922	-0.506
		12.538	13.561	15.482	8.763	13.111	21.199	20.730	28.047	25.590	26.536	27.129	27.727	20.469
		0.010	0.007	0.060	0.028	-0.108	0.046	0.134	0.146	0.220	0.648	0.411	0.622	0.307
3	HINTEN	-0.550	-0.517	-0.560	-0.553	-0.622	-0.656	-0.614	-0.606	-0.705	-0.848	-0.736	-0.832	-0.562
		0.512	6.620	7.466	6.719	3.908	9.992	14.825	13.453	14.738	24.803	24.090	27.827	16.150
		-0.055	-0.067	-0.155	-0.076	-0.023	-0.182	-0.015	-0.089	0.006	-0.107	-0.150	-0.210	-0.043
8	HINTEN	-0.470	-0.563	-0.475	-0.599	-0.482	-0.563	-0.450	-0.411	-0.446	-0.363	-0.465	-0.530	-0.482
		-15.600	-21.682	-19.330	-27.167	-7.245	-23.030	-16.387	-12.885	-9.017	29.710	14.704	16.098	-3.603
		0.005	-0.031	0.011	-0.007	0.066	0.074	0.184	0.111	0.162	0.099	0.062	0.091	0.079
11	HINTEN	-0.575	-0.624	-0.571	-0.618	-0.646	-0.724	-0.669	-0.706	-0.712	-0.714	-0.677	-0.686	-0.564
		-7.498	-11.663	-7.973	-17.170	-12.922	-17.143	-11.555	-24.985	-11.815	-11.784	-3.298	-2.397	-6.964
		0.058	0.059	0.093	0.094	0.023	0.100	0.142	0.142	0.181	0.077	0.011	-0.034	0.109
13	HINTEN	-0.455	-0.454	-0.503	-0.454	-0.583	-0.545	-0.532	-0.617	-0.596	-0.537	-0.486	-0.526	-0.459
		-7.224	-7.933	-11.347	-10.706	-18.813	-16.167	-20.393	-29.777	-14.850	-10.987	-2.597	2.913	4.165

HAUPTDEHNUNGEN DES BETONS

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BELASTUNGSGRAD M/MU

SCHNITT	LAGE	0.000	0.229	0.343	0.571	0.629	0.743	0.857	0.857 1	0.857 3	0.857 6	0.400 1	0.400 3	0.000 3
1	HINTEN	0.016	0.247	0.113	0.349	0.221	0.173	0.374	0.235	0.274	0.165	0.092	0.036	0.209
		-0.646	-0.602	-0.523	-0.419	-0.571	-0.628	-0.419	-0.540	-0.504	-0.570	-0.617	-0.546	-0.399
		-16.965	-5.258	-14.089	-10.278	-30.262	-24.525	-18.399	-36.951	-21.459	-22.225	-17.910	-13.283	-4.731
3	HINTEN	0.080	0.039	0.106	0.119	0.075	0.102	0.203	0.205	0.128	0.027	0.080	0.067	0.165
		-0.515	-0.539	-0.486	-0.504	-0.585	-0.597	-0.578	-0.590	-0.663	-0.682	-0.635	-0.662	-0.535
		-0.722	-4.486	-5.845	-10.090	-11.143	-13.374	-16.489	-14.492	-14.985	-12.289	-1.001	3.343	0.818
5	HINTEN	0.030	-0.062	-0.099	0.081	0.019	0.019	0.142	0.091	-0.047	0.114	0.064	0.138	-0.030
		-0.500	-0.538	-0.516	-0.456	-0.514	-0.589	-0.422	-0.461	-0.518	-0.549	-0.659	-0.683	-0.560
		1.620	-4.236	-9.435	-8.375	-7.344	-10.112	-12.601	-11.190	-4.581	18.824	17.999	13.985	-1.061
7	HINTEN	0.071	0.050	0.081	0.110	0.030	0.031	0.072	0.113	0.079	0.064	0.114	0.095	0.135
		-0.401	-0.450	-0.456	-0.375	-0.450	-0.451	-0.407	-0.373	-0.454	-0.459	-0.549	-0.570	-0.425
		3.036	-0.000	2.404	0.866	-1.193	2.382	-3.302	4.149	10.751	10.952	10.861	12.222	7.762
1	HINTEN	0.061	-0.047	0.089	0.151	0.135	0.120	0.166	0.098	0.039	0.097	0.242	0.159	0.121
		-0.116	-0.293	-0.164	-0.146	-0.250	-0.280	-0.251	-0.223	-0.259	-0.292	-0.302	-0.339	-0.066
		-20.213	-31.717	-13.536	-8.303	-0.372	-1.431	-3.094	-15.482	-6.785	7.821	28.886	29.913	10.188
3	HINTEN	-0.044	-0.059	-0.044	0.030	0.010	-0.016	0.046	0.081	0.016	0.038	0.011	-0.009	0.051
		-0.131	-0.221	-0.296	-0.250	-0.475	-0.559	-0.631	-0.576	-0.641	-0.668	-0.441	-0.481	-0.121
		-39.996	-5.310	-16.845	-2.043	-5.655	-5.035	-7.479	-7.283	-1.965	7.805	12.432	16.003	3.555
7	HINTEN	-0.073	-0.070	-0.029	0.020	-0.020	-0.014	0.087	0.111	0.097	0.024	0.028	0.028	0.066
		-0.207	-0.440	-0.521	-0.585	-0.870	-1.061	-1.227	-1.326	-1.412	-1.589	-1.048	-1.128	-0.436
		13.283	1.547	2.333	0.237	0.337	2.053	1.965	1.097	3.904	5.272	9.217	11.730	11.749

HAUPTDEHNUNGEN DES BETONS

1. ZEILE = EPSILON MAX IN PROMILLE
2. ZEILE = EPSILON MIN IN PROMILLE
3. ZEILE = WINKEL ZWISCHEN EPSILON MIN UND DER LAENGSACHSE

BELASTUNGSGRAD M/MU

SCHNITT	LAGE	0.229	0.343	0.571	0.629	0.743	0.857	0.857 1	0.857 3	0.857 6	0.400 1	0.400 3	0.000 3	0.857 7
8	OBEN	-0.048	0.012	0.024	-0.075	-0.132	-0.041	-0.054	-0.078	-0.092	-0.006	-0.057	0.035	-0.100
		-0.182	-0.242	-0.199	-0.520	-0.748	-0.829	-0.921	-1.012	-1.203	-0.749	-0.793	-0.250	-1.060
		6.497	12.780	17.023	8.811	4.196	6.225	1.819	7.762	13.801	21.954	21.949	29.691	7.235
11	OBEN	-0.003	0.069	0.086	0.021	0.022	0.077	0.103	0.048	0.053	0.046	0.053	0.079	0.051
		-0.172	-0.244	-0.296	-0.496	-0.582	-0.567	-0.568	-0.643	-0.743	-0.506	-0.548	-0.099	-0.651
		5.988	9.796	2.257	1.944	3.327	3.121	3.642	6.062	12.639	17.709	23.174	19.079	8.701
13	OBEN	0.030	0.049	0.095	0.060	0.061	0.115	0.124	0.097	0.104	0.104	0.067	0.072	0.090
		-0.140	-0.139	-0.135	-0.255	-0.306	-0.260	-0.294	-0.342	-0.369	-0.214	-0.287	-0.017	-0.315
		-20.118	-12.601	-1.245	-1.363	-7.491	-1.145	-5.520	4.249	17.769	12.073	22.500	-8.195	6.072
1	VORN	0.038	0.050	0.055	-0.035	0.128	0.197	0.271	0.492	1.069	0.869	1.039	0.392	0.849
		-0.018	-0.005	0.005	-0.070	-0.138	-0.122	-0.171	-0.282	-0.549	-0.419	-0.574	-0.137	-0.469
		22.500	42.403	-39.345	-85.935	35.101	31.517	42.403	32.380	29.974	31.618	31.439	26.728	29.966
3	VORN	0.075	0.098	0.070	-0.056	0.090	0.216	0.214	0.281	0.771	0.542	0.774	0.386	0.626
		-0.045	-0.058	-0.055	-0.134	-0.160	-0.156	-0.134	-0.226	-0.431	-0.327	-0.444	-0.101	-0.336
		57.222	37.534	43.855	64.903	33.251	37.982	35.783	30.582	35.029	38.182	38.838	34.461	31.717
8	VORN	0.010	0.001	0.033	0.077	-0.056	0.041	0.062	0.096	0.272	0.144	0.090	0.089	0.226
		-0.115	-0.106	-0.183	-0.057	-0.164	0.019	-0.037	-0.011	-0.217	-0.234	-0.305	-0.089	-0.001
		-43.855	85.935	-51.696	24.006	-73.155	-31.717	65.457	22.500	58.675	51.100	51.225	31.717	29.735
11	VORN	0.001	0.010	0.074	0.084	0.118	0.188	0.226	0.166	0.105	0.071	0.103	0.075	0.251
		-0.086	-0.000	-0.129	-0.094	-0.198	-0.103	-0.251	-0.146	-0.150	-0.116	-0.128	0.010	-0.146
		-50.004	-45.000	-52.876	-31.717	-35.783	-19.714	-47.107	-19.903	-21.704	10.188	10.786	-2.199	-20.967
13	VORN	0.024	0.073	0.080	0.066	0.111	0.185	0.256	0.167	0.052	-0.024	-0.020	0.051	0.192
		-0.044	-0.088	-0.045	-0.251	-0.161	-0.180	-0.336	-0.187	-0.117	-0.056	-0.145	-0.006	-0.212
		-38.283	-36.905	-43.855	-47.422	-40.787	-44.608	-50.845	-30.630	-35.625	54.217	48.421	-7.[illegible]	[illegible]

Balkenverformungen

VERSUCH VOM 19. MAI 1978

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WINKEL PHI (BOGENMASZ)

M (KNM)	T (KNM)	M/MU ----	T/TU ----	VERDREHUNG IM SCHNITT I	V	VII	X	XIV
80.0	0.0	0.114	0.000	0.0004908	0.0003455	0.0004363	0.0004181	0.0003819
160.0	0.0	0.229	0.000	0.0001818	0.0000182	0.0001455	0.0002364	0.0001091
160.0	0.0	0.229	0.000	0.0001273	-0.0000727	0.0000546	0.0003092	-0.0000181
240.0	0.0	0.343	0.000	0.0001273	-0.0000727	0.0001637	0.0004183	0.0000182
280.0	0.0	0.400	0.000	0.0001455	-0.0000546	0.0002000	0.0004363	0.0000545
320.0	0.0	0.457	0.000	0.0001273	-0.0000909	0.0002364	0.0002909	0.0000727
360.0	0.0	0.514	0.000	0.0001637	-0.0000728	0.0002545	0.0003091	0.0000727
400.0	0.0	0.571	0.000	0.0001455	-0.0001091	0.0002728	0.0003273	0.0000728
440.0	0.0	0.629	0.000	0.0001455	-0.0001273	0.0003091	0.0003092	0.0000728
480.0	0.0	0.686	0.000	0.0001273	-0.0001456	0.0003272	0.0005818	0.0000363
520.0	0.0	0.743	0.000	0.0000910	-0.0001636	0.0003453	0.0004362	0.0000182
560.0	0.0	0.800	0.000	0.0000547	-0.0001455	0.0003454	0.0006544	-0.0000000
600.0	0.0	0.857	0.000	0.0000182	-0.0001454	0.0003818	0.0003272	-0.0000182
0.0	0.0	0.000	0.000	-0.0000546	-0.0000000	0.0000546	0.0007454	-0.0000364
600.0	0.0	0.857	0.000	0.0001092	-0.0000000	0.0004181	0.0016181	0.0000547
600.0	16.0	0.857	0.067	0.0003092	0.0000726	0.0004362	0.0022180	-0.0002364
600.0	32.0	0.857	0.133	0.0005454	0.0001636	0.0003454	0.0012180	-0.0006182
600.0	48.0	0.857	0.200	0.0010364	0.0003091	0.0002000	-0.0007275	-0.0012183
600.0	64.0	0.857	0.267	0.0012365	0.0001818	-0.0002000	-0.0009638	-0.0020364
600.0	80.0	0.857	0.333	0.0018727	0.0005273	-0.0003455	-0.0012728	-0.0027819
480.0	80.0	0.686	0.333	0.0018907	0.0004182	-0.0004546	-0.0013091	-0.0028729
400.0	80.0	0.571	0.333	0.0018727	0.0002909	-0.0004728	-0.0012544	-0.0026183
280.0	80.0	0.400	0.333	0.0017455	0.0002364	-0.0004545	-0.0012000	-0.0026910
280.0	96.0	0.400	0.400	0.0019819	0.0002364	-0.0005091	-0.0012728	-0.0029819
280.0	112.0	0.400	0.467	0.0020909	0.0002728	-0.0006546	-0.0015636	-0.0033818
70.0	112.0	0.100	0.467	0.0023455	0.0004181	-0.0006727	-0.0017454	-0.0033636
0.0	0.0	0.000	0.000	0.0007271	0.0001455	-0.0002546	0.0001272	-0.0010363
300.0	0.0	0.429	0.000	0.0010546	0.0002364	-0.0000001	0.0000363	-0.0008727
600.0	0.0	0.857	0.000	0.0009637	0.0001453	0.0000545	0.0006544	-0.0010726
600.0	32.0	0.857	0.133	0.0010364	-0.0000546	-0.0006001	-0.0011635	-0.0023636
600.0	64.0	0.857	0.267	0.0015092	0.0000909	-0.0009454	-0.0020182	-0.0033636
600.0	96.0	0.857	0.400	0.0027636	0.0009273	-0.0009272	-0.0026364	-0.0045637
600.0	128.0	0.857	0.533	0.0047454	0.0018910	-0.0013455	-0.0040366	-0.0068183
600.0	160.0	0.857	0.667	0.0074546	0.0029818	-0.0020728	-0.0062911	-0.0103275
600.0	192.0	0.857	0.800	0.0121101	0.0068363	-0.0017455	-0.0078368	-0.0157647
600.0	208.0	0.857	0.867	0.0139474	0.0058910	-0.0035818	-0.0133648	-0.0182208
600.0	224.0	0.857	0.933	0.0170580	0.0079276	-0.0030001	-0.0122740	-0.0196033
600.0	240.0	0.857	1.000	0.0190593	0.0089639	-0.0037273	-0.0152927	-0.0221321
660.0	240.0	0.943	1.000	0.0233361	0.0120186	-0.0048909	-0.0182948	-0.0266629
700.0	240.0	1.000	1.000	0.0350298	0.0237126	0.0005818	-0.0273982	-0.0365519

AUSWERTUNG VOM 9.6.1978

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ERMITTLUNG DER DURCHBIEGUNG
BEIM VERSUCHSBALKEN SEIMQ1

VERSUCH VOM 19. MAI. 1978

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DURCHBIEGUNG V (MM)

M (KNM)	T (KNM)	M/MU -----	T/TU ----	DURCHBIEGUNG IM SCHNITT I	V	VII	X	XIV
80,0	0,0	0,114	0,000	0,365	1,085	1,210	1,075	0,385
160,0	0,0	0,229	0,000	0,770	2,284	2,550	2,245	0,790
160,0	0,0	0,229	0,000	0,795	2,361	2,644	2,285	0,817
240,0	0,0	0,343	0,000	1,175	3,521	3,955	3,435	1,193
280,0	0,0	0,400	0,000	1,420	4,276	4,795	4,180	1,434
320,0	0,0	0,457	0,000	1,625	4,885	5,505	4,860	1,640
360,0	0,0	0,514	0,000	1,865	5,661	6,380	5,625	1,890
400,0	0,0	0,571	0,000	2,080	6,341	7,155	6,310	2,100
440,0	0,0	0,629	0,000	2,330	7,125	8,045	7,095	2,340
480,0	0,0	0,686	0,000	2,615	8,061	9,140	7,950	2,629
520,0	0,0	0,743	0,000	2,905	9,066	10,305	8,980	2,913
560,0	0,0	0,800	0,000	3,284	10,391	11,875	10,230	2,794
600,0	0,0	0,857	0,000	3,692	11,851	13,635	11,760	3,708
0,0	0,0	0,000	0,000	0,545	6,579	1,784	1,355	0,481
600,0	0,0	0,857	0,000	3,800	10,566	14,105	11,775	3,794
600,0	16,0	0,857	0,067	3,975	12,769	14,731	12,091	3,955
600,0	32,0	0,857	0,133	4,020	12,915	14,885	12,446	4,000
600,0	48,0	0,857	0,200	4,175	13,455	15,505	12,841	4,156
600,0	64,0	0,857	0,267	4,270	13,730	15,796	13,147	4,231
600,0	80,0	0,857	0,533	4,395	14,215	16,347	13,613	4,347
480,0	80,0	0,686	0,333	3,800	12,135	13,896	11,892	3,742
400,0	80,0	0,571	0,533	3,365	10,560	12,051	10,347	3,287
280,0	80,0	0,400	0,533	2,710	8,325	9,456	8,141	2,621
280,0	96,0	0,400	0,400	2,675	8,265	9,381	8,051	2,612
280,0	112,0	0,400	0,467	2,705	8,275	9,381	8,081	2,612
70,0	112,0	0,100	0,467	1,595	4,795	5,416	4,651	1,537
0,0	0,0	0,000	0,000	0,810	2,550	2,921	2,285	0,745
300,0	0,0	0,429	0,000	2,260	6,995	11,327	6,818	2,220
600,0	0,0	0,857	0,000	4,155	13,530	15,583	13,101	4,136
600,0	32,0	0,857	0,133	4,315	13,968	16,067	13,323	4,271
600,0	64,0	0,857	0,267	4,425	14,255	16,381	14,077	4,347
600,0	96,0	0,857	0,400	4,701	15,115	17,406	14,928	4,579
600,0	128,0	0,857	0,533	5,069	16,540	19,052	16,266	4,932
600,0	160,0	0,857	0,667	5,563	18,550	21,342	18,202	5,445
600,0	192,0	0,857	0,800	6,276	20,884	24,442	20,784	6,122
600,0	208,0	0,857	0,867	6,715	23,076	26,836	23,266	6,633
600,0	224,0	0,857	0,933	7,032	24,328	28,298	24,058	6,951
600,0	240,0	0,857	1,000	7,369	25,636	29,877	25,700	7,278
660,0	240,0	0,943	1,000	8,560	30,438	35,733	30,403	8,561
700,0	240,0	1,000	1,000	10,873	40,321	46,985	40,623	11,079

AUSWERTUNG VOM 9.6.1978

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ERMITTLUNG DER VERDREHUNG
BEIM VERSUCHSBALKEN SETNO 1

VERSUCH VOM 19. MAI 1970

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WINKEL THETA (1/CM)

M (KNM)	T (KNM)	M/MU ----	T/TU ----	VERDREHUNG ZWISCHEN SCHNITT I UND V	V UNDVII	VIIUND X	X UND XIV
80.0	0.0	0.114	0.000	0.0000010	-0.0000009	0.0000002	0.0000002
160.0	0.0	0.229	0.000	0.0000011	-0.0000013	-0.0000009	0.0000008
160.0	0.0	0.229	0.000	0.0000013	-0.0000013	-0.0000025	0.0000022
240.0	0.0	0.343	0.000	0.0000013	-0.0000024	-0.0000025	0.0000027
280.0	0.0	0.400	0.000	0.0000013	-0.0000025	-0.0000024	0.0000025
320.0	0.0	0.457	0.000	0.0000015	-0.0000033	-0.0000005	0.0000015
360.0	0.0	0.514	0.000	0.0000016	-0.0000033	-0.0000005	0.0000016
400.0	0.0	0.571	0.000	0.0000017	-0.0000038	-0.0000005	0.0000017
440.0	0.0	0.629	0.000	0.0000018	-0.0000044	-0.0000000	0.0000016
480.0	0.0	0.686	0.000	0.0000018	-0.0000047	-0.0000025	0.0000036
520.0	0.0	0.743	0.000	0.0000017	-0.0000051	-0.0000009	0.0000026
560.0	0.0	0.800	0.000	0.0000013	-0.0000049	-0.0000031	0.0000044
600.0	0.0	0.857	0.000	0.0000011	-0.0000053	0.0000005	0.0000025
0.0	0.0	0.000	0.000	-0.0000004	-0.0000005	-0.0000069	0.0000052
600.0	0.0	0.857	0.000	0.0000007	-0.0000042	-0.0000120	0.0000104
600.0	16.0	0.857	0.067	0.0000016	-0.0000036	-0.0000178	0.0000164
600.0	32.0	0.857	0.133	0.0000025	-0.0000018	-0.0000087	0.0000122
600.0	48.0	0.857	0.200	0.0000048	0.0000011	0.0000093	0.0000033
600.0	64.0	0.857	0.267	0.0000070	0.0000038	0.0000076	0.0000072
600.0	80.0	0.857	0.333	0.0000090	0.0000087	0.0000093	0.0000101
480.0	80.0	0.686	0.333	0.0000098	0.0000087	0.0000085	0.0000104
400.0	80.0	0.571	0.333	0.0000105	0.0000076	0.0000078	0.0000104
280.0	80.0	0.400	0.333	0.0000101	0.0000069	0.0000075	0.0000099
280.0	96.0	0.400	0.400	0.0000116	0.0000075	0.0000076	0.0000114
280.0	112.0	0.400	0.467	0.0000121	0.0000093	0.0000091	0.0000121
70.0	112.0	0.100	0.467	0.0000128	0.0000109	0.0000107	0.0000108
0.0	0.0	0.000	0.000	0.0000039	0.0000040	-0.0000038	0.0000078
300.0	0.0	0.429	0.000	0.0000055	0.0000024	-0.0000004	0.0000061
600.0	0.0	0.857	0.000	0.0000055	0.0000009	-0.0000060	0.0000115
600.0	32.0	0.857	0.133	0.0000073	0.0000055	0.0000056	0.0000080
600.0	64.0	0.857	0.267	0.0000095	0.0000104	0.0000107	0.0000096
600.0	96.0	0.857	0.400	0.0000122	0.0000185	0.0000171	0.0000128
600.0	128.0	0.857	0.533	0.0000190	0.0000324	0.0000269	0.0000185
600.0	160.0	0.857	0.667	0.0000298	0.0000505	0.0000422	0.0000269
600.0	192.0	0.857	0.800	0.0000352	0.0000858	0.0000609	0.0000395
600.0	208.0	0.857	0.867	0.0000537	0.0000947	0.0000978	0.0000524
600.0	224.0	0.857	0.933	0.0000609	0.0001093	0.0000927	0.0000469
600.0	240.0	0.857	1.000	0.0000673	0.0001269	0.0001157	0.0000456
660.0	240.0	0.943	1.000	0.0000754	0.0001691	0.0001540	0.0000558
700.0	240.0	1.000	1.000	0.0000754	0.0002313	0.0002798	0.0000744

MU =339.5 (KN*M)

AUSWERTUNG VOM 9.6.1978

VERSUCH VOM 19. MAI 1976

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VERHAELTNIS KT/KT I

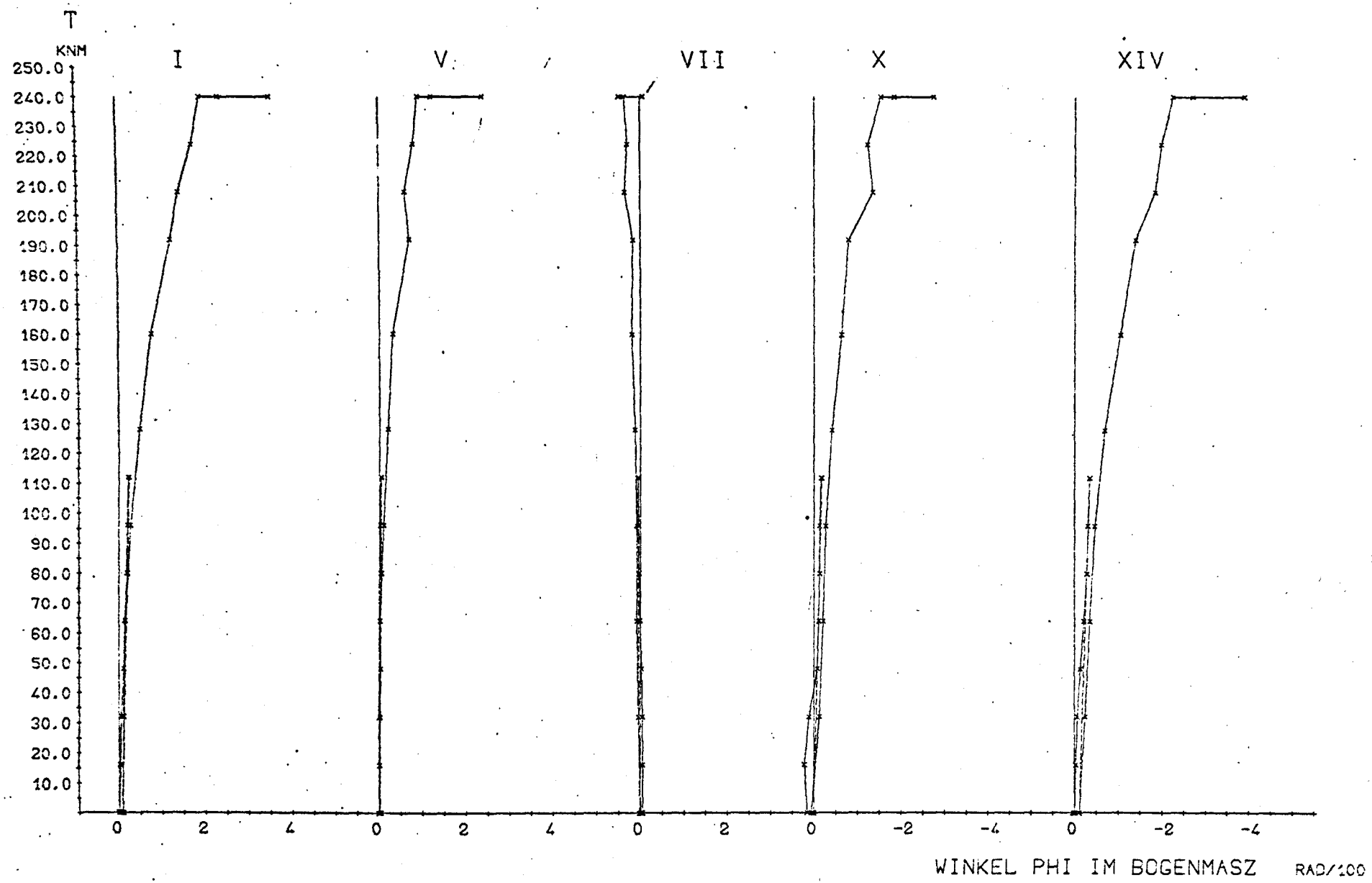
M (KNM)	T (KNM)	M/MU ----	T/TU ----	STEIFIGKEITSVERHAELTNIS IM BEREICH ZWISCHEN SCHNITT I UND V	V UNDVII	VIIUND X	X UND XIV
80.0	0.0	0.114	0.000	1.000	1.000	1.000	1.000
160.0	0.0	0.229	0.000	1.000	1.000	1.000	1.000
160.0	0.0	0.229	0.000	1.000	1.000	1.000	1.000
240.0	0.0	0.343	0.000	1.000	1.000	1.000	1.000
280.0	0.0	0.400	0.000	1.000	1.000	1.000	1.000
320.0	0.0	0.457	0.000	1.000	1.000	1.000	1.000
360.0	0.0	0.514	0.000	1.000	1.000	1.000	1.000
400.0	0.0	0.571	0.000	1.000	1.000	1.000	1.000
440.0	0.0	0.629	0.000	1.000	1.000	1.000	1.000
480.0	0.0	0.686	0.000	1.000	1.000	1.000	1.000
520.0	0.0	0.743	0.000	1.000	1.000	1.000	1.000
560.0	0.0	0.800	0.000	1.000	1.000	1.000	1.000
600.0	0.0	0.857	0.000	1.000	1.000	1.000	1.000
0.0	0.0	0.000	0.000	1.000	1.000	1.000	1.000
600.0	0.0	0.857	0.000	1.000	1.000	1.000	1.000
600.0	16.0	0.857	0.067	0.689	-0.299	-0.061	0.066
600.0	32.0	0.857	0.133	0.853	-1.195	-0.249	0.177
600.0	48.0	0.857	0.200	0.672	1.000	0.351	0.995
600.0	64.0	0.857	0.267	0.618	1.000	0.569	0.607
600.0	80.0	0.857	0.333	0.605	0.622	0.585	0.540
480.0	80.0	0.686	0.333	0.553	0.622	0.635	0.521
400.0	80.0	0.571	0.333	0.515	0.711	0.695	0.521
280.0	80.0	0.400	0.333	0.540	0.786	0.728	0.546
280.0	96.0	0.400	0.400	0.560	0.874	0.853	0.572
280.0	112.0	0.400	0.467	0.627	0.820	0.836	0.627
70.0	112.0	0.100	0.467	0.591	0.697	0.709	0.704
0.0	0.0	0.000	0.000	0.591	0.697	0.709	0.704
300.0	0.0	0.429	0.000	0.591	0.697	0.709	0.704
600.0	0.0	0.857	0.000	0.591	0.697	0.709	0.704
600.0	32.0	0.857	0.133	0.299	0.398	0.385	0.271
600.0	64.0	0.857	0.267	0.459	0.419	0.405	0.484
600.0	96.0	0.857	0.400	0.532	0.351	0.381	0.507
600.0	128.0	0.857	0.533	0.456	0.268	0.323	0.466
600.0	160.0	0.857	0.667	0.364	0.215	0.257	0.403
600.0	192.0	0.857	0.800	0.371	0.152	0.214	0.330
600.0	208.0	0.857	0.867	0.263	0.149	0.144	0.436
600.0	224.0	0.857	0.933	0.250	0.139	0.164	0.311
600.0	240.0	0.857	1.000	0.242	0.128	0.141	0.357
660.0	240.0	0.943	1.000	0.216	0.096	0.122	0.292
700.0	240.0	1.000	1.000	0.216	0.070	0.058	0.219

MU =339.5 (KN*M)

147364.9 (KN*M**2)

SETMQ1 QUERSCHNITTSVERDREHUNG PHI

IM SCHNITT



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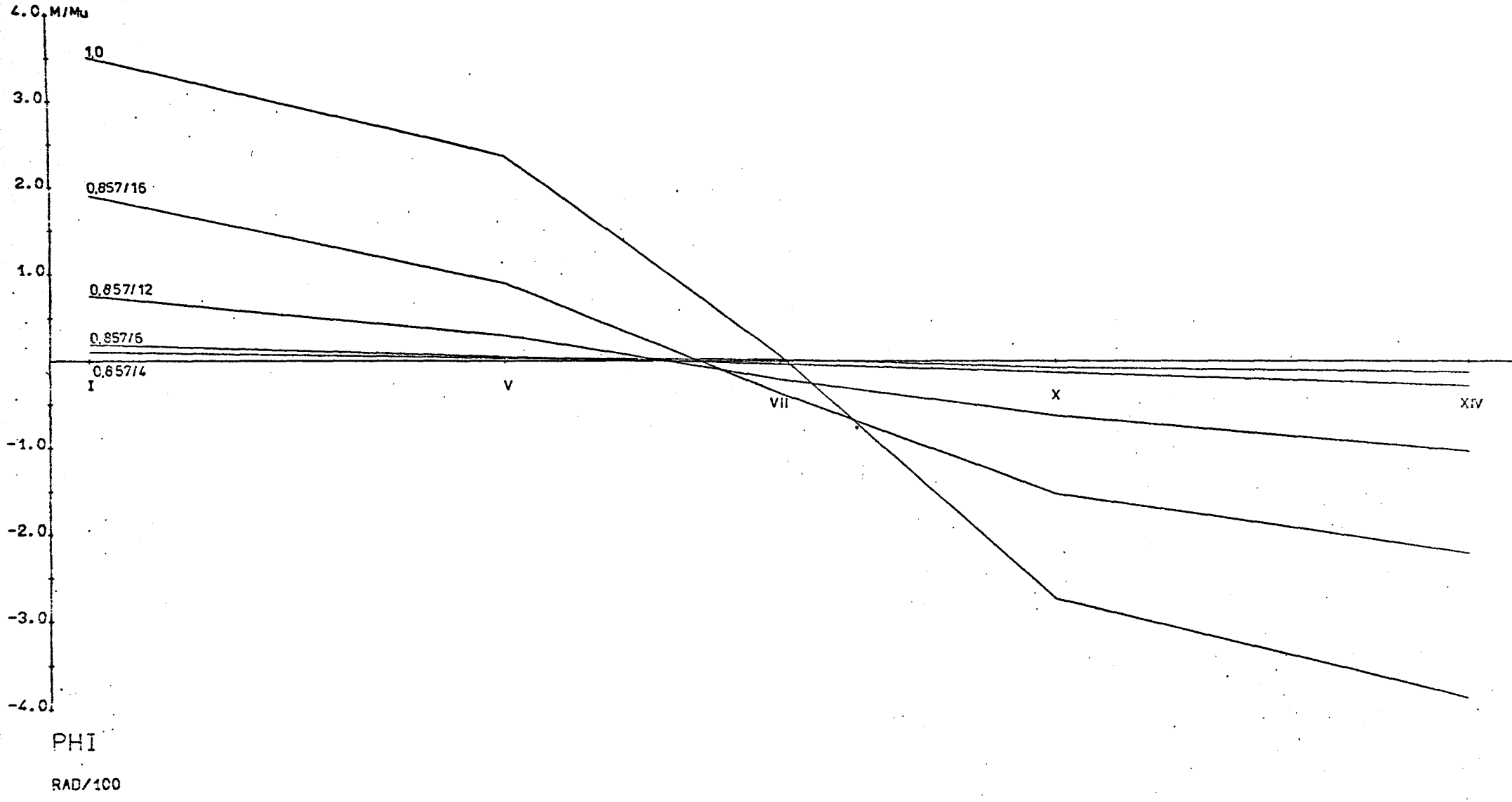

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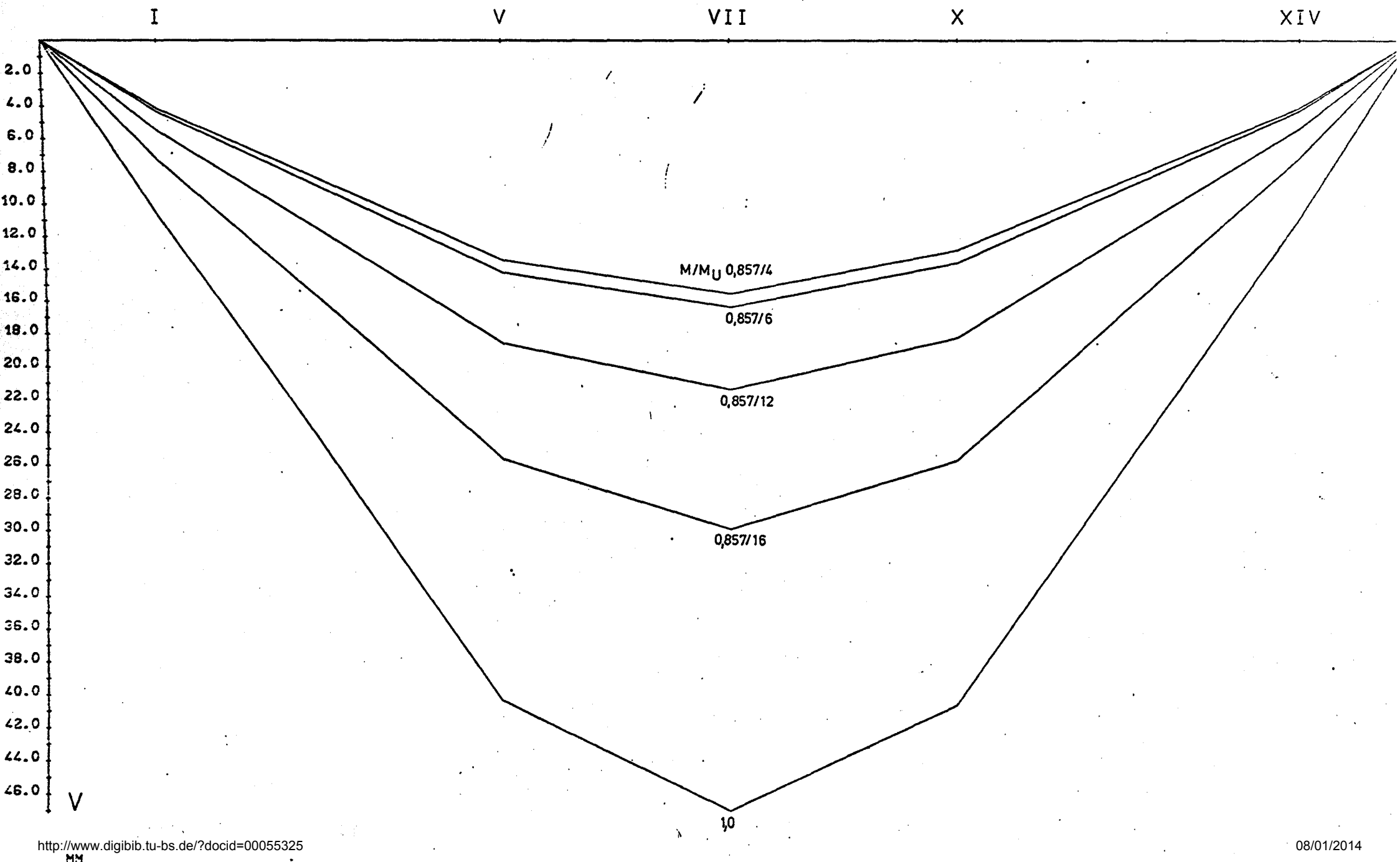

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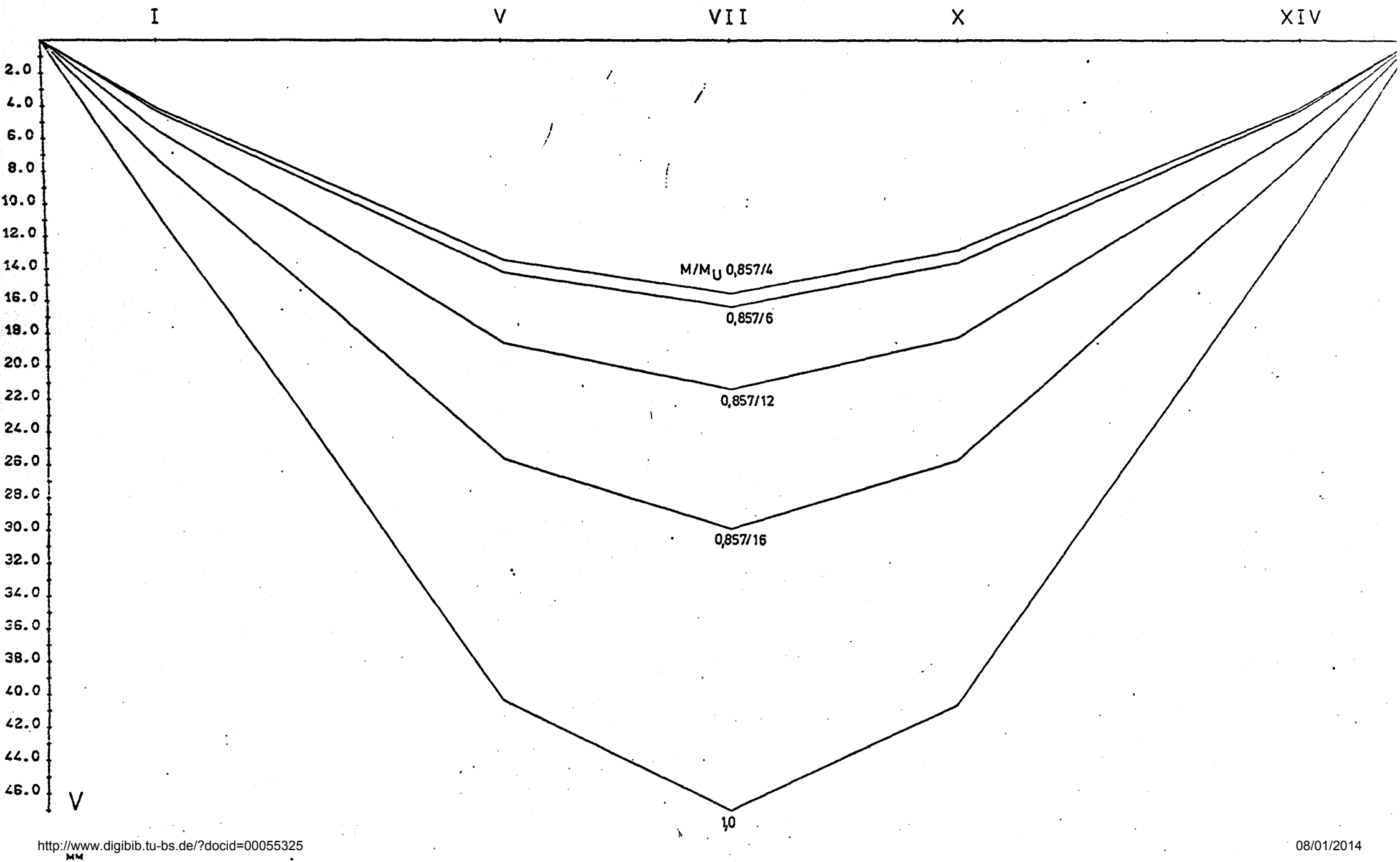
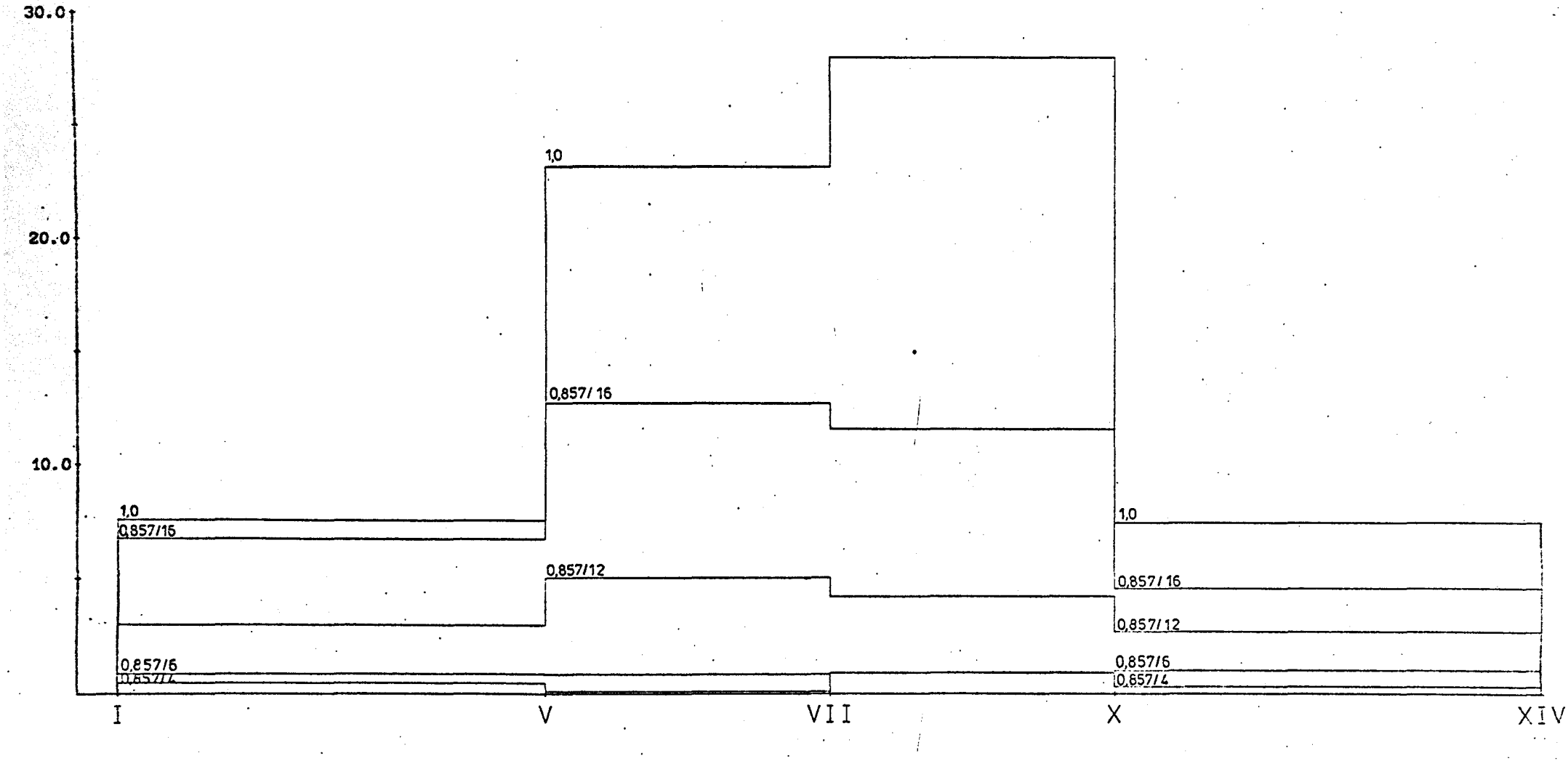


SETMQ1 . . BEZOGENE VERDREHUNG THETA ENTLANG DER BALKENLAENGSACHSE

THETA

1/1



SETMQ 1 TORSIONSSTEIFIGKEIT IN ABHAENGIGKEIT

VOM BELASTUNGSGRAD